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Petroleum Supply Monthly



November 1983

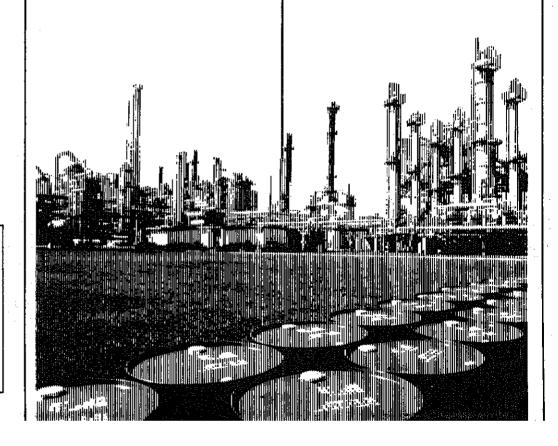
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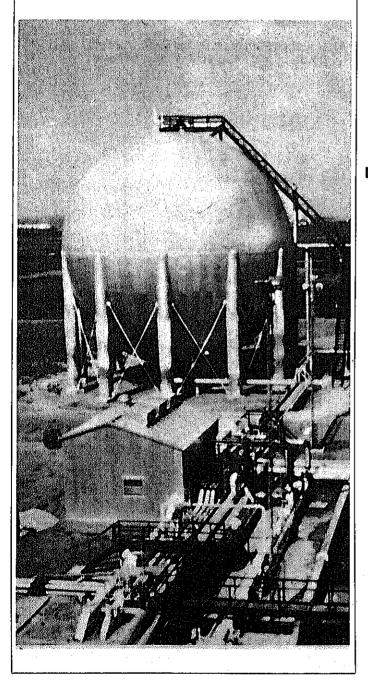




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This Month in the PSM

Background data relating to Liquefied Petroleum Gas (LPG) are discussed in this month's Petroleum Supply Monthly. International developments, U.S. trends, and EIA's projections for the near future and the longer term are included in the Petroleum Focus article, "LPG Market Trends," beginning on page ix. This article is supplemented by a "box" appearing on page xi that presents some common LPG terminology and a simplified diagram illustrating the flow between LPG sources and processing stages.



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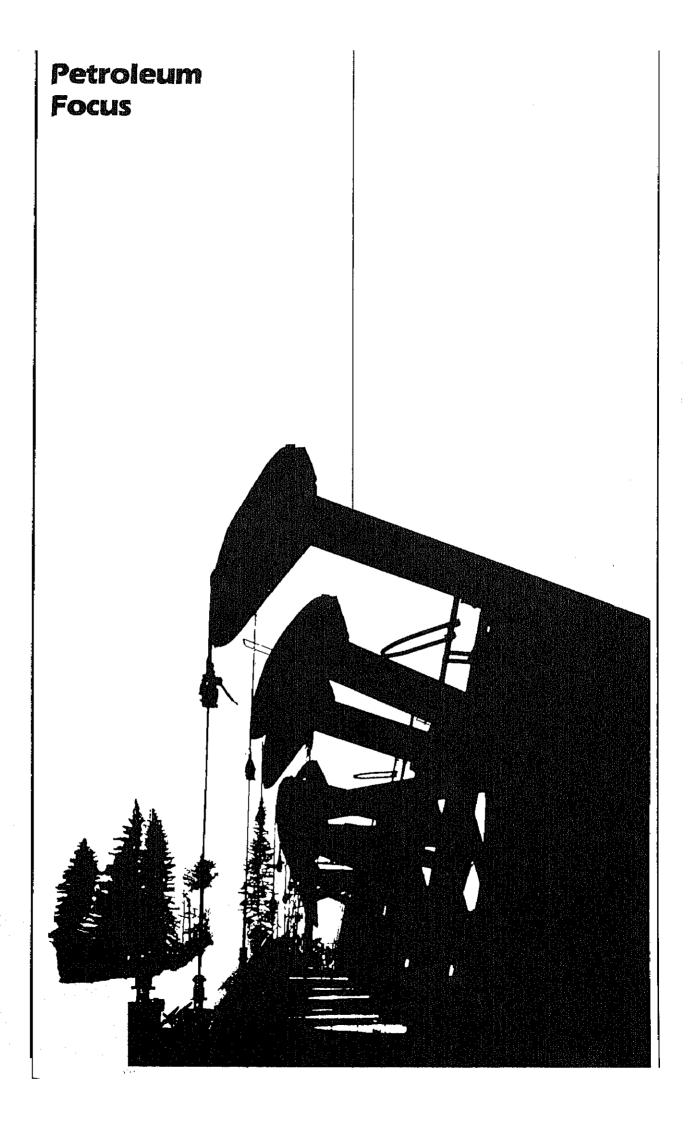
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Petroleum Supply Summary

V V V V V V V V V V V V V V V V V V V		October	4.4		umulative Jan Through Octob	
Average Volume for Period			%			%
(Million Barrels Per Day)	1983	1982	Change	1983	1982	Change
Total Product Supplied	15.4	14.9	3.7	15.0	15.3	- 1.7
Motor Gasoline	6.7	6.4	5.1	6.6	6.5	1.1
Distillate Fuel Oil	2.6	2.6	-0.2	2.6	2.7	- 3.0
Residual Fuel Oil	1.3	1.5	- 11.9	1.4	1.7	- 19.6
Crude Inputs to Refineries Crude Oil and Natural Gas	11.8	11.7	0.3	11.7	11.8	- 1.0
Liquids Production	10.3	10.2	2.0	10.2	10.2	0.4
Net Imports ¹	4.8	4.4	9.7	4.2	4,3	- 1.4
Net Crude Oil Imports ²	3.4	3.2	6.6	2.9	3.1	5.4
SPR Imports	0.2	0.2	- 1.4	0.2	0.2	45.8
Net Product Imports	1.2	1.0	22.2	1.1	1.0	2.8
Crude Oil Stock Withdrawal ²	- 0.05	- 0.33	*******	- 0.01	0.04	
Product Stock Withdrawal	0.16	- 0.05	_	0.14	0.31	_
Stocks at End of Period (Million Barrels)						
Crude OII²	353	351	NM			
Motor Gasoline ³	222	234	NM			
Distillate Fuel Oil	162	170	NM			
Residual Fuel Oll	47	64	NM			
Total Product	771	797	NM			
SPR	367	285	29.1			
Total	1,491	1,432	NM			

^{&#}x27;Gross Imports of crude oil including Strategic Petroleum Reserve (SPR) and petroleum products less exports of crude oil and petroleum products.

Excluding SPR.

Including blending components.

NM = Not meaningful due to new stock basis.

Note: Percent changes are based on unrounded values. October 1983 data are estimates based on weekly data, except for export and Natural Gas Liquids Production estimates which are September 1983 monthly values. Totals may not be equal to sum of components due to independent rounding.

Source: Energy Information Administration, Petroleum Supply Monthly, November 1983.

LPG Market Trends

The Energy Information Administration (EIA) collects information and data relating to liquefied petroleum gas (LPG) in various surveys, such as the Monthly Natural Gas Liquids Report, the Monthly Refinery Report, the Monthly Petroleum Product Sales Report, and annual Sales of Liquefied Petroleum Gases. National, regional, and some State data from these surveys are published in the Petroleum Supply Monthly, Petroleum Supply Annual, Petroleum Marketing Monthly, Monthly Energy Review, and other EIA publications. This article presents an analysis of recent developments in the LPG market and projections for both the near term and longer term based on these data.

Free World LPG Market

During the past decade most of the growth in Free World LPG supply occurred in the Middle East, North Africa, and Indonesia, while consumption increases were most significant in Japan and Western Europe. In recent years, sizeable trade relationships developed between producing and consuming nations. Meanwhile, the United States has remained virtually self-sufficient with regard to LPG. Consumption in the United States has been met predominantly by domestic production, and this country has had relatively little participation in the Free World market.

According to EIA's latest Annual Energy Outlook,¹ Free World energy consumption through 1990 is expected to grow at a rate of about 1 to 2 percent per year in the industrialized countries, with some faster growth in the developing economies. In the United States, the average annual growth rate for energy consumption through 1990 is projected to be slightly less than 2 percent, while the rate for LPG consumption growth is projected to be slightly above 2 percent.

Consumption in Japan, the second largest consumer of LPG in the Free World, is expected to increase to meet growing industrial needs and to fuel automobiles and trucks, to reduce pollution in metropolitan areas. Consumption in Western Europe is also expected to experience some limited growth, primarily in the industrial sector.

U.S. Long Term LPG Market

According to EIA's Annual Energy Outlook, the Industrial sector, including petrochemical feedstocks, is expected to remain the largest consumer of LPG in the United States through 1990. Nationwide, this is the only economic sector in which significant LPG consumption increases are expected during this period. Growth in LPG use for feedstock purposes is expected to more than offset declining fuel and power uses in this sector.

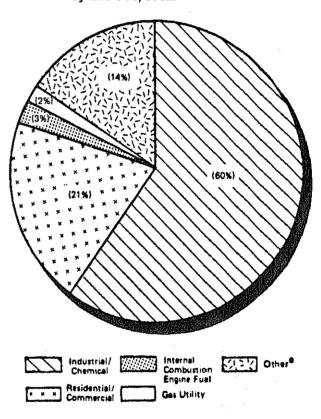
Again at the national level, consumption by the residential/commercial sector is expected to remain constant for the next few years, with a slight decline near the end of the decade, as electricity and other energy forms replace LPG use in homes.

No significant growth is projected for transportation use of LPG at the national level. However, some analysts believe there is considerable potential for development in local transportation markets.

Current Usage Patterns

EIA's latest *Petroleum Supply Annual*² shows about 60 percent of total U.S. LPG sales in 1982 were to the industrial/chemical sector, while about 21 percent went to the residential/commercial sector. The chemical market was the largest single end-use component, with 49 percent of 1982 sales (see Figure 1).

Figure 1. Sales of Liquefied Petroleum Gases by End Use, 1982.



^aIncludes farm use, use as synthetic natural gas feedstock, and use in crude oil secondary recovery projects.
Source: Form EIA-174.

Energy Information Administration, 1982 Annual Energy Outlook, DOE/EIA 0383(82), April 1983.

²Energy Information Administration, *Petroleum Supply Annual* 1982, DOE/EIA-0340(82)/1, June 1983.

EIA's most recent Residential Energy Consumption Survey' shows that nationwide, 1 out of 11 U.S. households used LPG during the year ending March 1982. In about half of these households, LPG was the main heating fuel and consumption averaged about 730 gallons for the survey period.

Short-Term Projections

Projections from EIA's latest Short-Term Energy Outlook,4 cover the 1983-84 heating season and extend through the end of 1984. The following are some highlights from that report:

- · U.S. crude oil consumption is expected to bottom out in 1983 and begin rising again through 1984. In contrast, world crude oil consumption in 1984 is expected to decline for the fourth consecutive vear.
- · Assuming flat world crude oil prices, petroleum product prices in the United States are expected to remain relatively stable through 1984.
- · Prices of natural gas and electricity for residential use in 1984 are projected to average 7 to 8 percent above year-earlier levels, in nominal terms.
- The U.S. economic recovery that began early in 1983 is expected to continue through 1984. The recovery is expected to result in increased energy consumption during the fourth quarter of 1983, contingent upon a return to normal winter weather.
- LPG consumption in the United States is expected to remain essentially unchanged during 1984 and to follow normal seasonal patterns.

These projections are based on the best information available, however, changing conditions at home and abroad can dramatically change markets for individual energy sources. For example, recent petroleum supply datas show how events in the world LPG market can affect the domestic propane market:

- The United States used about 800,000 barrels of propane per day during 1981 and 1982, excluding
- Prior to October 1981, propane exports were restricted, and the United States exported less than 10,000 barrels per day, equivalent to about 1 percent of U.S. consumption,
- · Following the relaxation of export restrictions, propane exports grew, and in 1982, averaged about

- 30,000 barrels per day, equivalent to 4 percent of domestic consumption.
- In the first quarter of 1983, U.S. propane exports climbed to 70,000 barrels per day, equivalent to about 8 percent of domestic consumption. This growth is attributed to the anticipation of a shortfall of propane on the world market when a major supplier, Saudi Arabia, reduced its crude oil production to alleviate a world over-supply of crude oil, Japan, and other users of Saudi Arablan propane, sought alternate sources of supply on the open market, U.S. producers met some of that demand.
- The volume of U.S. exports was equivalent to less than 10 percent of U.S. consumption. Although the surge in exports lasted only a few months, it was sufficient to have an impact on domestic stocks and prices.
- · During the first quarter of 1983, U.S. stocks of propane were drawn down by about 6 million barrels to meet this level of exports. This drawdown was in addition to normal winter withdrawals and, as a result, U.S. propane stocks dropped to 41 million barrels in April 1983, their lowest level in years. During the same period, propane prices on the U.S. spot market rose to around 50 cents per galion, up from 30 to 40 cents per gallon a year earlier.
- U.S. exports of propane dropped back to about 25,000 barrels per day by June, and by August, stocks were rebuilt to about 60 millions barrels, almost as high as 1 year earlier levels. However, spot prices remained around 50 cents per gallon.

These events suggest that while the United States is self-sufficient in LPG supply, this nation is nevertheless subject to the influence of the world marketplace. Volumes of LPG's that appear small when viewed from a national perspective can have a significant impact on prices and availability. While EIA expects adequate supplies and relatively stable prices in the near term, disruptions of supplies to other major consuming nations could bring a return to tight market conditions and upward pressures on U.S. prices.

1982) and Petroleum Supply Monthly (1983).

Changes in LPG Reporting

The Energy Information Administration plans to institute changes to Natural Gas Liquids (NGL) and Liquefied Petroleum Gases (LPG) data surveys to simplify reporting and to improve the quality of NGL and LPG statistics. These changes were developed through the cooperation of survey respondents and data users in industry, Federal and State governments and academic institutions.

Beginning in January 1984 statistics will be reported by component (propane, butane, isobutane, ethane, and pentanes-plus). The reporting of ethane-propane mix, butane-propane mix and unfractionated streams which has led to misclassification and overcounting will be eliminated. A detailed description of the changes will be contained in the January 1984 "Petroleum Supply Monthly".

³Energy Information Administration, Residential Energy Consumption Survey, DOE/EIA-0321/1(81), September 1983. Energy Information Administration, Short Term Energy Outlook, DOE/EIA-0202(83/3Q) August 1983. See "Summary Statistics" *Petroleum Supply Annual* (1981 and

Liquefied Petroleum Gas Terminology

Hydrocarbon liquids condensed from natural gas are known as natural gas liquids (NGL). They include the lighter liquids: ethane, propane, and butane, and mixtures of these compounds. Heavier NGL's, extracted at natural gas processing plants, include natural gasoline, plant condensate, and pentanes plus. "Liquefied petroleum gas" (LPG) as used in the accompanying article, includes all ethane, propane, butane, and isobutane condensed from natural gas or liquefied at refineries. The term "LPG" is used in a narrower context in the industry to denote propane, butane, and mixtures consisting mainly of these compounds.

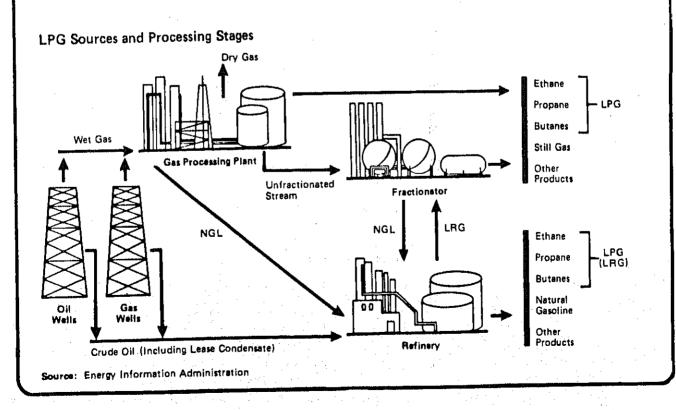
The simplified flow diagram below illustrates the flow between LPG sources and processing stages. About 80 percent of LPG production comes from natural gas processing, shown on the top half of the diagram. The remaining production stems from refinery processing of crude oil. Condensate produced at gas wells (lease condensate) generally merges with the crude oil stream and EIA data include it as part of that stream. In contrast, EIA data include condensate which originates at gas processing plants (plant condensate) with NGL production rather than with crude oil production.

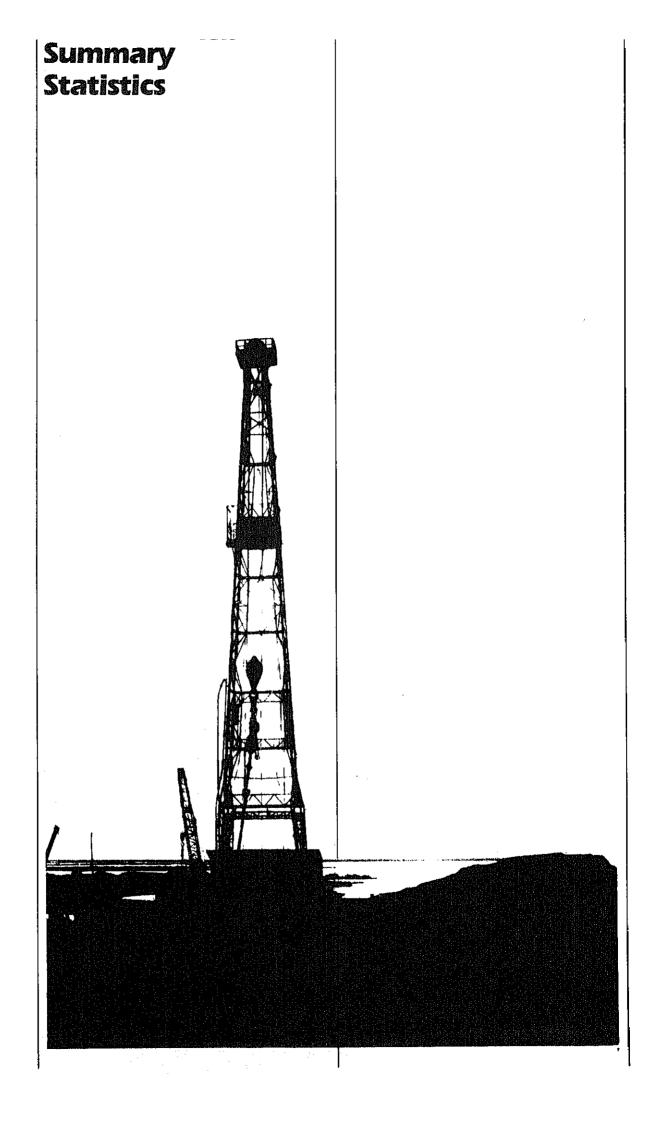
NGL's are recovered from "wet" gas streams at gas processing plants. Some plants yield "unfractionated streams," or NGL mixes, that are further processed at fractionators to yield ethane, propane, and butane.

Large quantities of natural gas liquids flow from gas processing plants and fractionators to refineries. These liquids consist principally of LPG's and heavier NGL's. Smaller amounts of liquefied refinery gases flow from refineries to fractionators for processing. The term "liquefied refinery gas," or LRG, is sometimes used to denote LPG produced at refineries.

LPG's have become an increasingly important part of the energy picture over the last decade; among petroleum products, only motor gasoline and distillate fuel oil substantially exceed LPG usage. Chemical feedstock is the principal non-energy use for LPG and currently accounts for about half of LPG sales. LPG is also used as fuel or gasoline blending components within the petroleum industry, accounting for about 15 percent of total LPG supply.

There are distinct uses for Individual LPG products. Ethane, the lightest LPG, is used primarily as a petrochemical feedstock. Propane, which constitutes the largest portion of LPG production, serves as an energy source for residential, commercial, and industrial users, and is also used as a petrochemical feedstock. LPG mixes consist principally of ethane-propane mixes destined for the petrochemical sector. More than half of the butane is blended into gasoline and nearly all of the isobutane is used in manufacturing gasoline blending components.





		Field Producti	on	Stock V	Withdrawai ²		Ending Stocks ³
	Total Domestic ⁴	Crude Oil	Natural Gas Plant Production	Crude Oll ⁵	Petroleum Products	Petroleum Products Supplied	Crude Oil ⁵ and Petroleum Products
			Thousand Ba	rrels per Day			Million Barrels
1973 AVERAGE	10,975	9,208	1,738	11	-146	17,308	1.000
1974 AVERAGE	10,498	8,774	1,688	-62	-117	16,653	1,008 ⁶ 1,074
1975 AVERAGE	10,045	8,375	1,633	-17	-145	16,322	
1976 AVERAGE	9,774	8,132	1,603	-39	-145 96		1,133
1977 AVERAGE	9,913	8,245	1,618	-170		17,461	1,112
1978 AVERAGE	10,328	8,707	1,567	-78	-378 170	18,431	1,312
1979 AVERAGE	10,179	8,552	1,584	-148	172	18,847	1,278
1980 AVERAGE	10,214	8,597	1,573	-146 -98	-25	18,513	1,341
		-,	1,070	-90	-42	17,056	⁶ 1,392
1981 January	10,231	8,540	1,652	50	1.150	40.400	
February	10,294	8,604	1,653		1,159	18,430	1,388
March	10,272	8,613	1,624	-278 -632	250	16,989	1,389
April	10,195	8,557	1,599	-632 -595	224	15,907	1,401
May	10,160	8,501	1,593		148	15,350	1,415
June	10,287	8,629	1,594	-391	-374	15,353	1,438
July	10,098	8,500	1,548	-135	406	16,095	1,430
August	10,243	8,583	1,614	-360	91	15,682	1,439
September	10,281	8,604		397	-999	15,263	1,457
October	10,225	8,563	1,612	-285	-341	15,655	1,476
November	10,269	8,586	1,598	-760	477	15,822	1,485
December	10,220	8,585	1,630	-325	-233	15,593	1,501
AVERAGE	10,230	8,572	1,590 1,609	-170	745	16,596	1,484
	•	0,0,2	1,009	-290	130	16,058	
1982 January	10,128	8,509	1,578	-401	1 000	40.0.	
February	10,312	8,702	1,563	-242	1,298	16,124	1,456
March	10,284	8,667	1,572	121	1,230	16,001	1,428
April	10,188	8,591	1,542	-37	1,047	15,560	1,392
May	10,244	8,683	1,518	-37 29	1,583	16,046	1,346
June	10,212	8,646	1,511		-66	14,847	1,347
July	10,229	8,658	1,513	40	-489	14,998	1,360
August	10,215	8,634	1,524	-147	-926	14,821	1,393
September	10,279	8,701	1,518	-440 263	-44	14,839	1,408
October	10,299	8,701	1,530		-447	15,022	1,414
November	10,359	8,697	1,609	-548	-47	14,859	1,432
December	10,276	8,598	1,628	-398	~361	15,009	1,455
AVERAGE	10,252	8,649	1,550	128 -136	688	15,487	⁶ 1,430
983 January			-,	~100	283	15,296	
February	10,356	8,634	1,668	-567	865	44 700	
March	10,298	8,660	1,585	-382	1,128	14,765	1,453
April	10,259	8,677	1,544	56		14,772	1,432
May	10,229	8,686	1,502	-438	1,765	15,484	1,375
May June	10,231	8,682	1,483	-408 68	431 750	14,779	1,376
	10,262	8,676	1,514	-163	-759	14,250	1,397
July	10,237	8,647	1,536	118	-242	15,281	1,409
August Sontombast	10,257	8,653	1,561	-781	-922	14,913	1,434
September*	10,323	8,666	1,598		~289	_ 15,366	1,467
October**	NA	8,654	NA	R -191	R -634	R 15,396	R 1,492
AVERAGE	NA	8,663	NA	<i>-270</i> -254	163	15,408	1,491
			110	-254	144	15,043	17.14.1

includes lease condensate.

² A negative number indicates an increase in stocks and a positive number indicates a decrease.

Stocks are totals as of end of period.
 Includes crude oil, natural gas plant production, other hydrocarbons and alcohol.
 Includes stocks located in the Strategic Petroleum Reserve.
 In January 1975, 1981, and 1983, significant numbers of new respondents were added to bulk terminal and pipeline surveys as a result of extensive investigation during the previous years. The major impact is on the reporting of stocks and stock withdrawals. Using the expanded coverage (new basis), end of year stocks would be: 1974-1,121, 1980-1,420 and 1982-1,462. Stock withdrawals during 1975, 1981 and 1983 are calculated using new basis stock levels.
 Totals may not equal sum of components due to independent rounding.
 NA = Not available. R = Revised data.

See Explanatory Note 9.1.

Italics denote preliminary data. See Explanatory Note 8.

Geographic coverage: The 50 United States and the District of Columbia. Sources: See "Sources" at the end of this section.

Crude Oil¹ and Petroleum Products Overview (continued)

			Imports			Exports			
		Total	Crude Oll ²	Petroleum Products	Total	Crude Oll	Petroleum Products	Net ³ Imports	
				Thousa	nd Barrels p	er Day			
1973	AVERAGE	6,256	3,244	3,012	231	2	229	6,025	
1974	AVERAGE	6,112	3,477	2,635	221	3	218	5,892	
1975	AVERAGE	6,056	4,105	1,951	209	6	204	5,846	
1976	AVERAGE	7,313	5,287	2,026	223	8	215	7,090	
1977	AVERAGE	8,807	6,615	2,193	243	50	193	8,565	
1978	AVERAGE	8,363	6,356	2,008	362	158	204	8,002	
1979	AVERAGE	8,456	6,519	1,937	472	235	237	7,984	
1980	AVERAGE	6,909	5,263	1,646	544	287	258	6,365	
1981	January	6,827	4,932	1,895	558	339	219	6,270	
1901	February	6,772	4,873	1,899	5 6 9	198	371	6,203	
				1,507	586	210	376	5,442	
	March	6,028	4,521						
	April	5,668	4,338	1,330	570	198	372	5,098	
	May	5,775	4,287	1,489	595	312	283	5,180	
	June	5,435	4,061	1,375	420	123	297	5,015	
	July	5,816	4,296	1,521	571	257	314	5,245	
	August	5,767	4,179	1,588	644	204	440	5,123	
	September	6,365	4,740	1,624	519	194	325	5,845	
	October	5,959	4,380	1,579	738	226	512	5,221	
	November	5,741	4,046	1,695	701	278	423	5,041	
	December	5,843	4,137	1,706	656	189	467	5,187	
	AVERAGE	5,996	4,396	1,599	595	228	367	5,401	
1982	January	5,332	3,693	1,639	829	238	591	4,503	
	February	4,807	2,990	1,817	804	304	499	4,003	
	March 1	4,484	2,874	1,610	882	321	561	3,602	
	April	4,378	2,849	1,529	786	174	611	3,593	
	May	4,811	3,309	1,503	803	262	542	4,008	
	June	5,327	3,836	1,491	703	94	609	4,624	
	July	5,890	4,248	1,642	741	229	512	5,149	
	August	5,244	3,851	1,392	858	304	554	4,386	
	September	5,414	3,636	1,778	791	184	606	4,624	
	•				932	270	662	4,374	
	October	5,306	3,670	1,636			524		
	November	5,744	3,862	1,882	786	262		4,958	
	December	4,606	3,000	1,605	860	193	667	3,746	
	AVERAGE	5,113	3,488	1,625	815	236	579	4,298	
1983	January	4,372	2,938	1,434	973	117	856	3,399	
	February	3,691	2,268	1,423	865	262	603	2,825	
	March	3,629	2,232	1,398	801	174	627	2,829	
	April	4,744	3,154	1,590	809	88	721	3,935	
	May	4,898	3,234	1,664	848	280	568	4,049	
	June	5,218	3,502	1,716	774	144	630	4,443	
	July	5,690	3,868	1,822	571	145	426	5,119	
	August	6,036	4,174	1,863	663	172	491	5,373	
	September*	R 6,088	R 4,221	R 1,867	684	177	507	5,403	
	October**	5,482	3,785	1,697	NA	NA	NA	NA.	
	AVERAGE	4,994	3,345	1,649	NA NA	NA	NA	NA.	

Includes lease condensate,

Includes crude oil for storage in the Strategic Petroleum Reserve.

³ Net Imports = Imports minus Exports.

Totals may not equal sum of components due to independent rounding.

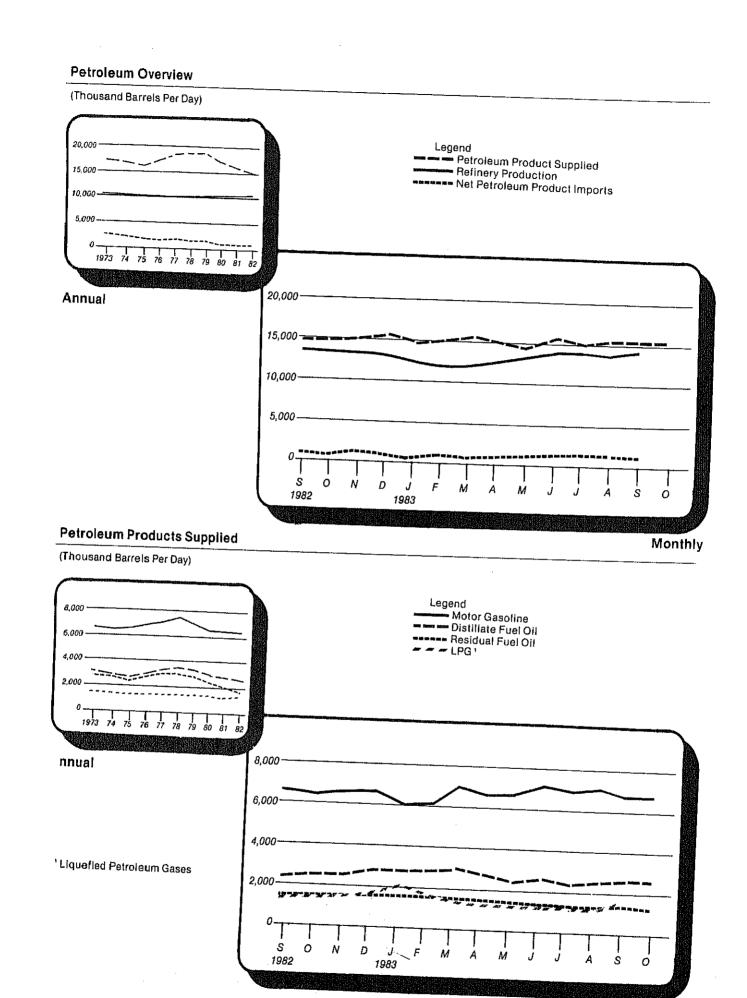
NA = Not available. R = Revised data.

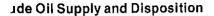
'See Explanatory Note 9.1.

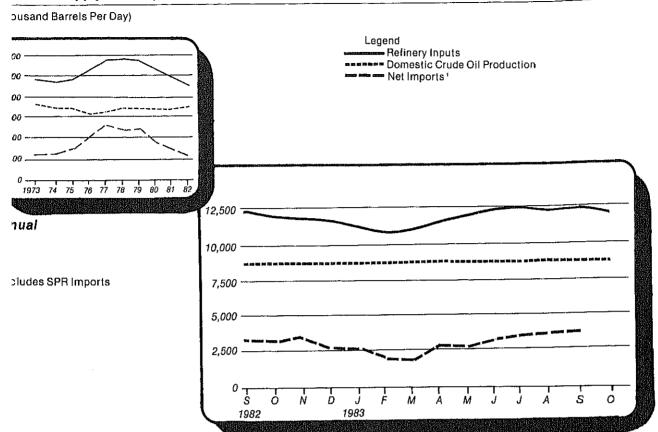
'Italics denote preliminary data. See Explanatory Note 8.

Geographic coverage: The 50 United States and the District of Columbia.

Sources: See "Sources" at the end of this section.

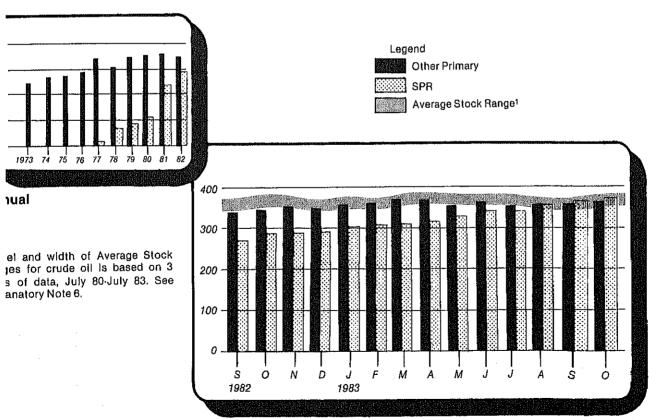






ide Oil Ending Stocks

lions of Barrels)



					Supply			
	Field Pro	oduction		Imports	3		tock drawal ²	
	Total Domestic	Alaskan	Total	SPR3	Other	SPR3	Other	Unac- counted for Crude Oil
				Thousand	Barrels per Da	ay		·
1973 AVERAGE 1974 AVERAGE 1975 AVERAGE 1976 AVERAGE 1977 AVERAGE 1979 AVERAGE 1980 AVERAGE	9,208 8,774 8,375 8,132 8,245 8,707 8,552 8,597	198 193 191 173 464 1,229 1,401	3,244 3,477 4,105 5,287 6,615 6,356 6,519	21 162 67	3,244 3,477 4,105 5,287 6,594 6,195 6,452	-20 -163 -67	11 -62 -17 -39 -150 84	3 -25 17 77 -6 -57
4004	•	1,017	5,263	44	5,219	-45	-52	34
1981 January February March April May	8,540 8,604 8,613 8,557 8,501	1,606 1,619 1,618 1,608 1,580	4,932 4,873 4,521 4,338 4,287	106 80 140 272 386	4,826 4,793 4,382 4,066	-151 -127 -155 -444	201 -150 -477 -151	113 -41 154 51
June July	8,629 8,500	1,632 1,605	4,061 4,296	318	3,901 3,743	-513 -434	122 299	286 49
August September October November December AVERAGE	8,583 8,604 8,563 8,586 8,585 8,572	1,602 1,607 1,596 1,614 1,623	4,179 4,740 4,380 4,046 4,137	175 257 435 453 271 165	4,121 3,922 4,305 3,927 3,774 3,971	-324 -372 -486 -501 -259 -252	-36 769 201 -259 -66 82	147 16 -295 166 279 52
1982 January		1,609	4,396	256	4,141	-336	46	83
February March April May	8,509 8,702 8,667 8,591 8,683	1,705 1,707 1,696 1,691 1,707	3,693 2,990 2,874 2,849 3,309	170 159 185 190	3,523 2,830 2,689 2,659	-159 -213 -235 -233	-242 -29 357 196	101 156 2 231
June July August September	8,646 8,658 8,634	1,665 1,710 1,697	3,836 4,248 3,851	204 105 97 208	3,105 3,732 4,150 3,643	-176 -105 -97 -208	205 144 50	111 133 -20
October November December AVERAGE	8,701 8,701 8,697 8,598 8,649	1,705 1,706 1,676 1,682 1,69 6	3,636 3,670 3,862 3,000	139 216 180 124	3,497 3,454 3,683 2,877	-143 -216 -179 -125	-232 406 -332 -219 252	189 -210 249 -124 35
983 January	8,634	*	3,488	165	3,323	-174	38	71
February March April May	8,660 8,677 8,686 8,682	1,698 1,725 1,726 1,710 1,710	2,938 2,268 2,232 3,154	219 197 201 205	2,720 2,071 2,031 2,949	-219 -197 -184 -197	-348 -185 240 -241	238 423 134 191
June July August September*	8,676 8,647 8,653 8,666	1,710 1,705 1,712	3,234 3,502 3,868 4,174	289 190 274 350	2,945 3,312 3,594 3,823	-293 -188 -264 -358	362 25 382 -423	148 480 -74
October** AVERAGE	8,654 8,663	1,722 1, 731 1, 71 5	R 4,221 <i>3,785</i> 3,345	R 309 <i>213</i> 245	R 3,912 3,572 3,100	R -307 -220 -243	R 116 -50 -10	333 6 -NA NA

Includes lease condensate.
 A negative number indicates an increase in stocks and a positive number indicates a decrease.
 Strategic Petroleum Reserve.
 Totals may not equal sum of components due to independent rounding.
 NA = Not available. R = Revised data.
 See Explanatory Note 9.2.
 ** Italics denote preliminary data. See Explanatory Note 8.
 Note: Stock withdrawals during 1975, 1981, and 1983 are calculated using new basis stock levels.
 Geographic coverage: The 50 United States and the District of Columbia.
 Sources: See "Sources" at the end of this section.

Crude Oil¹ Supply and Disposition (continued)

		Supply		Dispo	sition		Er	ding Stock	S ²
		Crude Used Directly ³	Crude Losses	Refinery Inputs	Exports	Product Supplied ³	Total Crude Oil	SPR4	Other Primary
			Thous	and Barrels p	er Day		٨	fillion Barrel	S
1973	AVERAGE	-19	13	12,431	2	NA	242		242
1974	AVERAGE	-15	13	12,133	3	NA	⁵ 265		⁵ 265
1975	AVERAGE	-17	13	12,442	6	NA	271		271
1976	AVERAGE	-18	15	13,416	8	NA	285		285
1977	AVERAGE	-14	16	14,602	50	NA	348	7	340
1978	AVERAGE	-14	16	14,739	158	NA	376	67	309
1979	AVERAGE	-13	16	14,648	235	NA	430	91	339
1980	AVERAGE	-13	15	13,481	287	NA	5 466	108	5 358
981	January	-43	6	13,247	339	NA	486	112	374
	February	-55	3	12,902	198	NA	494	116	378
	March	-57	6	12,383	210	NA	514	121	393
		-57 -59	3	12,000	198	NA	532	134	39
	April	-59 -59	3	12,091	312	NA	544	150	39
	May				123	NA	548	163	38
	June	-58	7	12,415	257	NA	559	173	380
	July	-58	7	12,261			547	185	36
	August	-58	5	12,908	204	NA			350
	September	-61	4	12,505	194	NA	555	199	36
	October	-63	3	12,057	226	NA	579	215	
	November	-64	4	12,240	278	NA	589	223	360
	December	-63	4	12,349	189	NA	594	230	363
	AVERAGE	-58	5	12,470	228	NA			
1982	January	-63	3	11,599	238	NA	606	235	37
	February	-64	2	11,236	304	NA	613	241	37
	March	-63	5	11,276	321	NA	609	249	36
	April	-65	3	11,392	174	NA	610	256	35
	May	-62	3	11,806	262	NA	609	261	34
	June	-60	7	12,494	94	NA	608	264	34
	July	-60	3	12,446	229	NA	613	267	34
	August	-57	2	11,871	304	NA	626	274	35
	September	-56	4	12,146	184	NA	619	27 8	34
	October	-51	2	11,749	270	NA	636	285	35
	November	-51	ī	11,724	262	NA	648	290	35
	December	-53	i	11,514	193	NA	5 644	294	5 35
	AVERAGE	-59	ä	11,774	236	NA		•	
1022	January	NA	2	11,070	117	54	661	301	36
. 403	February	NA NA	3	10,635	262	69	672	306	36
			2	10,854	174	70	670	312	35
	March	NA NA	2	11,436	88	68	684	318	36
	April	NA NA	1	11,789	280	63	6B1	327	35
	May			12,287	144	64	686	332	35
	June	NA	1			65	683	341	34
	July	NA	2	12,347	145		707	352	35
	August	NA	1	12,141	172	64		R 361	R 35
	September*	NA	1	R 12,445	177	66	R 713		
	October**	NA	NA	11,779	NA	NA	720	367	35
	AVERAGE	NA	NA	11,685	NA	NA			

¹ Includes lease condensate.

losses in this table and with product supplied for distillate and residual fuel oils.

² Stocks are totals as of end of period.

³ Beginning in January 1983, crude oil used directly as fuel is presented as product supplied for crude oil. Prior to January 1983 crude oil used directly was included with crude oil

⁴ Strategic Petroleum Reserve.

⁵ In January 1975, 1981, and 1983, significant numbers of new respondents were added to bulk terminal and pipeline surveys as a result of extensive investigation during the previous years. The major impact is on the reporting of stocks and stock withdrawals. Using the expanded coverage (new basis) end of year stocks would be: 1974-265, 1980-483 (Total) and 375 (Other primary), and 1982-644 (Total) and 350 (Other Primary).

Totals may not equal sum of components due to independent rounding.

NA = Not available. R == Revised data.

^{*} See Explanatory Note 9.2.
** Italics denote preliminary data. See Explanatory Note 8.

Geographic coverage: The 50 United States and the District of Columbia.

Sources: See "Sources" at the end of this section.

		Supply			Disp	osition		Ending	Stocks1
	Tatal				F	Product Suppli	ed		
	Total Produc- tion	Imports ²	Stock With- drawal ² ³	Exports	Total	Unleaded ⁵	Unleaded	Total Motor Gasoline ⁴	Finished Motor Gasoline
		·	Thousand Ba	rrels per Da	ıy		Percent of Total	Million	Barrels
1973 AVERAGE	6,535	134	9	4	6,674	NA	l	L	
1974 AVERAGE	6,360	204	-24	2		NA	NA	209	
1975 AVERAGE	6,520	184	-28	2	,	NA	NA	⁶ 218	
1976 AVERAGE	6,841	131	10		6,675	NA	NA	235	
1977 AVERAGE	7,033	217		3	6,978	NA	NA	231	
1978 AVERAGE	7,169		-72	2	7,177	1,976	27.5	258	
1979 AVERAGE		190	54	1	7,412	2,521	34.0	238	
1980 AVERAGE	6,852	181	2	(s)	7,034	2,798	39.8		
1990 MAEUWRE	6,506	140	-66	`` 1	6,579	3,067	46.6	237	
1981 January	074				3,5.0	0,001	40.0	⁶ 261	
February	6,715	138	-421	(s)	6,431	3,141	40.0		
	6,308	111	-118	` 1	6,301	3,095	48.8	276	227
March	6,213	171	-81		6,303		49.1	284	230
April	6,114	186	303	(s) (s)		3,097	49.1	285	232
May	6,122	150	344		6,602	3,284	49.7	272	223
June	6,220	186		1	6,615	3,115	47.1	259	213
July	6,405		622	1	7,028	3,419	48.6	242	
August		151	268	(s)	6,823	3,424	50.2		194
September	6,611	124	-95	3	6,637	3,344		228	186
	6,564	169	-70	2	6,662		50.4	233	189
October	6,426	147	7	3		3,338	50.1	237	191
November	6,564	148	-338		6,578	3,257	49.5	236	190
December	6,586	197	-91	1	6,373	3,198	50.2	248	201
AVERAGE	6,405	157	28	11	6,681	3,444	51.5	253	203
	•	,	20	2	6,588	3,264	49.5		200
1982 January	6,167	128	-316						
February	5,899	133		18	5,961	3,067	51.5	261	213
March	5,994		172	8	6,196	3,210	51.8		
April		183	334	44	6,466	3,358	51.9	257	208
May	6,095	185	650	33	6,897	3,495		247	198
June	6,319	182	177	23	6,655		50.7	221	179
	6,754	230	-134	14	6,835	3,415	51.3	214	173
July	6,768	225	-178	24		3,565	52.2	219	177
August	6,419	291	-81		6,790	3,577	52.7	226	183
September	6,527	223	-198	16	6,614	3,526	53.3	227	185
October	6,262	185		22	6,531	3,404	52.1	234	
November	6,273	211	-42	15	6,391	3,351	52.4	234	191
December	6,542		101	11	6,574	3,451	52.5		192
AVERAGE	6,338	178	-165	7	6,549	3,485		230	189
	0,000	197	25	20	6,539	3,409	53.2	⁸ 235	⁶ 194
983 January	6,020	440			-,	0,409	52.1		
February	0,020	148	-186	(^s)	5,981	3,352			
March	5,848	142	32	(s)	6,022	0,002	56.0	251	208
April	5,897	205	765	`´ 23		9,257	54.1	251	207
	6,202	273	27		6,843	3,620	52,9	224	184
May	6,386	284	-128	1	6,501	3,505	53.9	221	
June	6,646	265	118	1	6,540	3,547	54.2	225	183
July	6,704	297		22	7,008	3,796	54.2		187
August	6,539		-210	18	6,773	3,752		223	183
September*	R 6,582	260	159	13	6,946		55.4	231	190
October**		R 285	R -160	14	R 6,693	3,836	55.2	226	185
AVERAGE	6,245	287	203	NA		3,671	54.8	R 230	R 190
VIFUNGE	6,310	245	63	NA	6,719	NA	NA	222	185
				MA	6,607	NA	NA		100

2 Beginning in 1981, excludes blending components.

5 Includes gasohol.

A negative number indicates an increase in stocks and a positive number indicates a decrease. 4 Includes motor gasoline blending components.

⁶ In January 1975, 1981, and 1983, significant numbers of new respondents were added to bulk terminal o in January 1975, 1981, and 1983, significant numbers of new respondents were added to bulk terminal and pipeline surveys as a result of extensive investigation during the previous years. The major impact is on the reporting of stocks and stock withdrawals. Using the extended of year stocks would be: 1974-225, 1980-263, 1982-244 (Total) and 203 during 1975, 1981, and 1983 are calculated using new basis stock levels.

(a) Explanator Note 9.3 expanded coverage (new basis), (Finished). Stock withdrawals

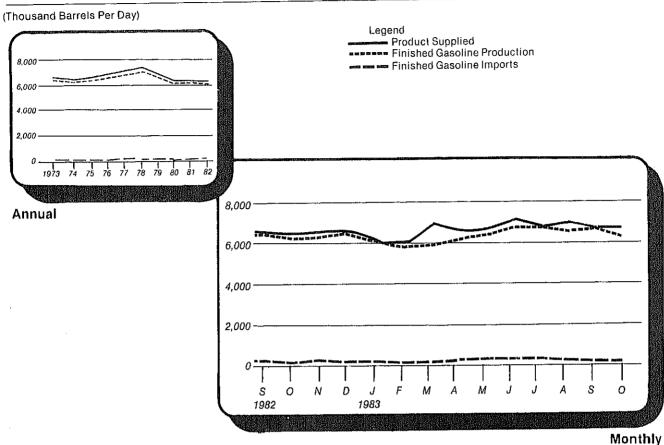
Italics denote preliminary data. See Explanatory Note 8.

Note: Beginning in January 1981, survey forms were modified.

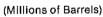
Geographic coverage: The 50 United States and the District of Columbia.

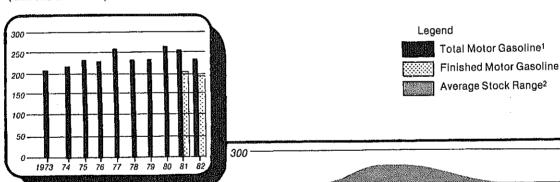
Sources: See "Sources" at the end of this section.

Motor Gasoline Supply and Disposition



Motor Gasoline Ending Stocks

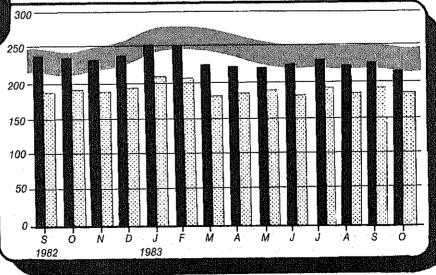




Annual

1 Includes finished motor gasoline blending components

² Level and width of Average Stock Range for total motor gasoline based on 3 years of data, July 80-June 83. See Explanatory Note 6.



				apply		Disp	osition	Ending Stocks ¹
		Total Production	Imports	Stock Withdrawai ²	Crude Used Directly ³	Exports	Product Supplied ³	
				Thousand Bar	rels per Day			Million Barrels
1973		2,822	392					ivillion Barrels
1974		2,669	289	-115	2	9	3,092	196
1975		2,654	155	-9	2	2	2,948	4 200
1976		2,924	146	40	2	1	2,851	209
1977		3,278	250	62	1	1	3,133	
1978		3,167		-176	1	1	3,352	186
1979	AVERAGE	3,153	173	93	1	3		250
1980	AVERAGE	2,662	193	-34	1	3	3,432	216
		2,002	142	64	i	3	3,311	229
1981	January	0.000			•	3	2,866	4 205
	February	2,989	273	836	11	/e\		
	March	2,809	325	246	11	(s)	4,109	179
		2,484	147	264		17	3,373	173
	April	2,418	116	-9	9	(s)	2,904	164
	May	2,454	179	-232	10	3	2,532	165
	June	2,501	225		10	(s)	2.411	172
	July	2,395	179	-270	9	(s)	2,464	180
	August	2,656	174	-204	10	2	2,378	186
	September	2,610		-450	8	(s)	2,388	
	October	2,485	129	-235	10	`´ 1	2,513	200
	November	2,716	119	197	9	5	2,803	207
	December		124	36	11	6		201
	AVERAGE	2,856	95	277	11	26	2,880	200
	ATENAGE	2,613	173	38	10	5	3,212 2,829	192
1982	January	2,591	97	074		-	2,023	
	February	2,427	132	876	10	90	3,484	164
	March	2,288		605	11	90	3,085	147
	April	2,358	48	682	10	84	2,945	126
	May	2,618	59	612	13	64	2,978	
	June		74	-183	10	75	2,444	108
	July	2,729	102	-335	10	55		114
	August	2,734	125	-789	11	24	2,452	124
	September	2,507	80	-339	10	40	2,058	148
		2,657	61	-85	12		2,218	159
	October	2,838	91	-289	8	139	2,507	161
	November	2,860	145	-514	8	66	2,581	170
	December	2,655	109	225		24	2,475	186
	AVERAGE	2,606	93	35	10	143	2,855	4 179
		•	~~	33	10	74	2,671	
983 ·	January	2,314	58	E64				
1	February	2,136	58	561 740	NA	173	2,760	168
t	March	1,991	42	742	NA	105	2,832	147
1	April	2,169		926	NA	59	2,900	119
	May	2,109 2,444	73	518	NA	47	2,713	103
	lune		141	-193	NA	50	2,341	
	luly	2,545	175	-154	NA	40		109
		2,600	259	-556	NA	55	2,526	114
<i>P</i>	August	2,612	302	-403	NA	43	2,248	131
	September*	Ft 2,725	R 253	R -374	NA NA		2,467	144
Ç	October** AVERAGE	2,651	220	-244	NA NA	37 NA	R 2,568	R 155
							<i>2,576</i>	

¹ Stocks are totals as of end of period.

² A negative number indicates an increase in stocks and a positive number indicates a decrease.

³ Beginning in January 1983, product supplied for distillate fuel oil does not include crude oil used directly. See Explanatory Note 4.

does not include crude oil used directly. See Explanatory Note 4.

In January 1975, 1981, and 1983, significant numbers of new respondents were added to and pipeline surveys as a result of extensive investigation during the previous years. impact is on the reporting of stocks and stock withdrawals. Using the expanded coverage end of year stocks would be: 1974-224, 1980-205, and 1982-186. Stock withdrawals during 1975, 1981, and 1983 are calculated using new basis stock levels.

(a) = Less than 500 barrels per day. NA = Not available. R = Revised data.

Totals may not agual sum of components due to independent rounding. bulk terminal The major (new basis),

Totals may not equal sum of components due to independent rounding.

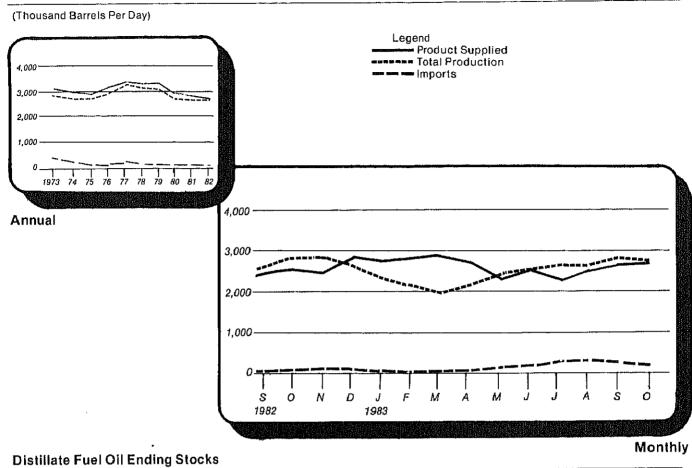
See Explanatory Note 9.4.

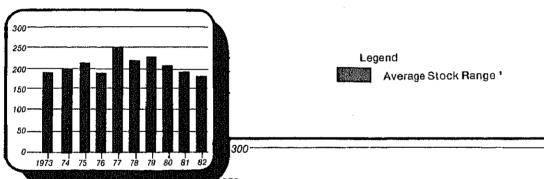
Italics denote preliminary data. See Explanatory Note 8.

Note: Beginning in January 1981, survey forms were modified. Geographic Coverage: The 50 United States and the District of Columbia.

Sources: See "Sources" at the end of this section.



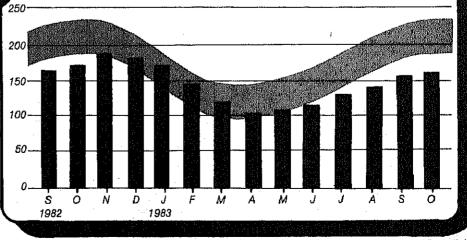




Level and width of Average Stock Range for distillate fuel oil is based on 3 years of data, July 80-July 83. See Explanatory Note 6.

(Millions of Barrels)

Annual



			Su	ipply		Disp	osition	Ending Stocks ¹	
		Total Produc- tion	Imports	Stock Withdrawal ²	Crude Used Directly ³	Exports	Product Supplied ³		
		Thousand Barrels per Day							
1973	AVERAGE	971	1,853	5	17	23	2,822	53	
1974	AVERAGE	1,070	1,587	-17	13	14	2,639	⁴ 60	
1975	AVERAGE	1,235	1,223	2	15	15	2,462	74	
1976	AVERAGE	1,377	1,413	- 5	17	12	2,801	72	
1977		1,754	1,359	-48	13	6	3,071		
1978		1.667	1,355	-1 -1	13	13		90	
1979		1,687	1,151	-15			3,023	90	
1980		1,580	939	10	12	9	2,826	96	
, 000	71 - 11114	1,000	333	10	12	33	2,508	4 92	
1981		1,612	1,015	302	32	65	2,896	82	
	February	1,565	954	150	44	125	2,588	78	
	March	1,424	699	100	48	145	2,126	75	
	April	1,320	584	66	49	151	1,868	73	
	May	1,223	741	-170	49	25	1,817	78	
	June	1,232	540	291	49	76	2,037	69	
	July	1,174	830	2	48	82	1,971	69	
	August	1,231	819	-179	50	69	1,852	75	
	September	1,292	841	-176	51	126	1,882	80	
	October	1,238	786	8	54	202	1,884	80	
	November	1,227	880	-49	53	203	1,909		
	December	1,329	916	110	52	157		81	
	AVERAGE	1,321	800	37	48	118	2,250 2,088	78	
1982	January	1,235	831	301	FO	205	·		
	February	1,186	956	363	53 50	235	2,185	69	
	March	1,123	912		53	213	2,344	58	
	April	1,166	788	12	53	197	1,903	58	
	May	1,128		150	52	234	1,923	54	
	June	1,074	742	-172	52	191	1,560	59	
	July		652	-57	50	217	1,501	61	
	August	1,028	657	56	49	239	1,550	59	
-	. •	965	551	203	47	235	1,531	53	
	September	1,008	872	-306	44	148	1,470	62	
	October	955	783	-57	43	234	1,490	64	
	November	989	837	-94	43	182	1,591	66	
	December	989	747	6	43	186	1,598	4 66	
	AVERAGE	1,070	776	32	48	209	1,716	' 00	
983	January	935	691	243	NA	204	4 5-4		
	February	857	632	270	NA NA	294	1,574	61	
	March	833	686	220		191	1,568	53	
	April	942	743	-10	NA	169	1,569	46	
	May	930	709		NA	310	1,364	47	
	June	832	709 676	-139	NA	190	1,310	51	
	July	771		28	NA	219	1,317	50	
	August	706	682	-58	NA	90	1,306	52	
	September*		705	115	NA	165	1,362	48	
	October**	R 815	R 690	R -47	NA	134	R 1,324	R 50	
		785	652	-8	NA	NA	1,312		
	AVERAGE	840	687	60	NA	NA	1,400	47	

Stocks are totals as of end of period.

A negative number indicates an increase in stocks and a positive number indicates a decrease. 3 Beginning in January 1983, product supplied for residual fuel oil

Beginning in January 1983, product supplied for residual fuel oil does not include crude oil used directly. See Explanatory Note 4.

In January 1975, 1981, and 1983, significant numbers of new respondents were added to bulk terminal and pipeline surveys as a result of extensive investigation during the previous years. The major impact is on the reporting of stocks and stock withdrawals. Using the expanded coverage (new basis), end of year stocks would be: 1974-75, 1980-91, and 1982-68. Stock withdrawals during 1975, 1981, and 1983 are calculated using new basis stock levels.

Totals may not equal sum of components due to independent rounding.

NA = Not available. R = Revised data.

See Explanatory Note 9.4.

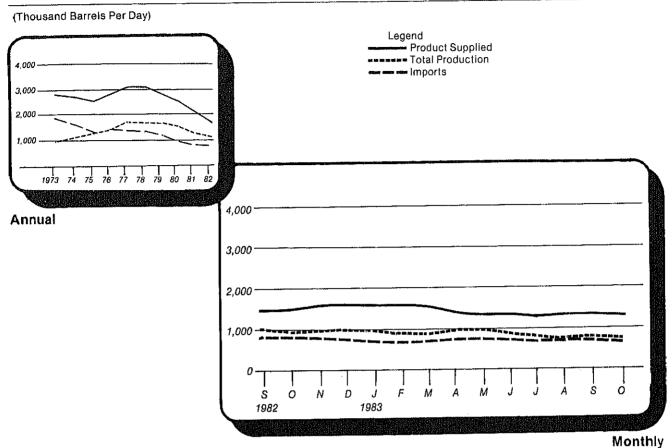
Italics denote preliminary data. See Explanatory Note 8.

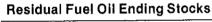
Note: Beginning in January 1981, survey forms were modified.

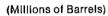
Geographic Coverage: The 50 United States and the District of Columbia.

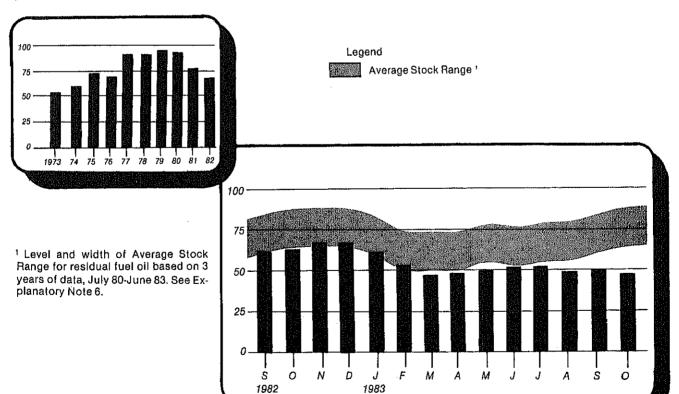
Sources: See "Sources" at the end of this section.

Residual Fuel Oil Supply and Disposition









Liquefied Petroleum Gases Supply and Disposition

		Supply				Ending Stocks ¹		
		Total Production	Imports	Stock Withdrawai ²	Refinery Inputs	Exports	Product Supplied	
				Thousand Bar	reis per Day			Man - D
1973	AVERAGE	1,600	132		<u>_</u>			Million Barrel
1974	AVERAGE	1,565	123	-35	220	27	1,449	99
1975	AVERAGE	1,527	112	-38	220	25	1,406	³ 113
1976	AVERAGE	1,535	130	-35	246	26	1,333	125
1977	AVERAGE	1,566	161	24	260	25	1,404	116
1978	AVERAGE	1,537		-55	233	18	1,422	
1979	AVERAGE	1,556	123	12	239	20	1,413	136
1980	AVERAGE		217	70	236	15		132
		1,535	216	-27	233	21	1,592	111
1981	January	1017				4.1	1,469	³ 120
	February	1,617	306	363	352	21		
	March	1,593	327	173	303		1,913	117
		1,551	260	-4	257	21	1,769	112
	April	1,586	214	-236	231	20	1,530	112
	May	1,587	189	-258		26	1,308	119
	June	1,567	206	-208	220	19	1,279	127
	July	1,507	213	-258	237	24	1,304	133
	August	1,592	195		215	17	1,229	141
	September	1,622	199	-242	235	149	1,160	149
	October	1,593		-75	287	21	1,438	
	November	1,571	287	72 .	320	76	1,556	151
	December	1,468	280	86	383	58	1,495	149
	AVERAGE		255	379	428	50		146
	· · · · · · · · · · · · · · · · · · ·	1,571	244	-18	289	42	1,624 1,466	135
1982	January	1,565					1,400	
	February	1,466	314	443	391	67	1,863	404
	March	1,544	291	243	327	51	1,621	121
	April		223	211	289	74		114
	May	1,506	188	98	257	77	1,615	108
	June	1,565	186	-71	234	43	1,458	105
		1,515	192	-86	262		1,403	107
	July A	1,476	227	-13	253	106	1,254	109
	August	1,511	125	-45	253 254	37	1,399	110
	September	1,538	247	37		61	1,276	111
	October	1,517	194	97	274	85	1,463	110
Ŋ	Vovember	1,542	267	175	306	81	1,421	107
ב	December	1,580	258		363	37	1,583	102
	AVERAGE	1,528	226	256	395	56	1,642	3 94
		,	220	111	300	65	1,499	04
	anuary	1,662	240	610			•	
F	ebruary	1,560	305	618	313	118	2,088	84
N	farch	1,517	166	84	237	76	1,636	81
	pril	1,531		-51	189	127	1,316	
	lay	1,545	124	-107	198	116	1,232	83
	iue	1,593	167	-326	207	84	1,094	86
	ıly		172	-333	205	59		96
	ugust	1,571	191	-206	217		1,169	106
		1,505	160	-183	229	55 20	1,284	112
36	eptember* AVERAGE	1,625	178	-23	236	29	1,225	118
		1,568				86	1,457	

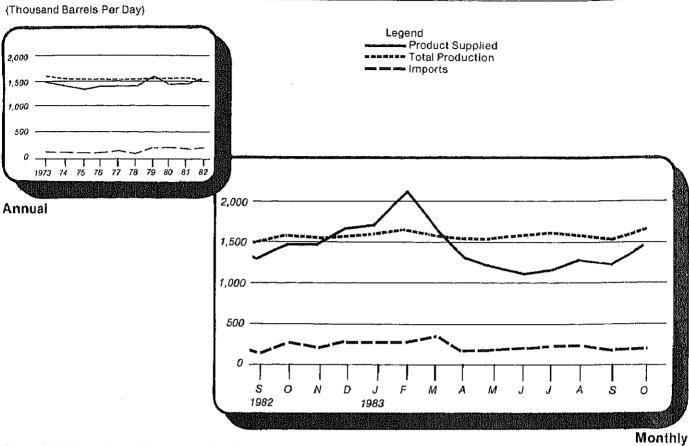
Stocks are totals as of end of period.

A negative number indicates an increase in stocks and a positive number indicates a decrease. bers of new respondents were added to bulk restigation during the previous years.

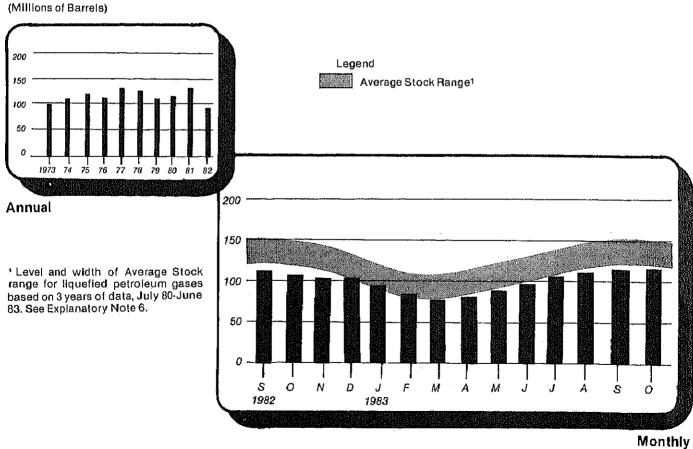
withdrawals. Using the expanded 4-113, 1980-128, and 1982-103. Stock using new basis stock levels. nt rounding,

of Columbia.

Liquefied Petroleum Gases Supply and Disposition



Liquefied Petroleum Gases Ending Stocks



		Supply				Ending Stocks ²		
		Total Produc- tion	Imports	Stock Withdrawal ³	Refinery Inputs	Exports	Products Supplied	
			1	Thousand Ba	rrels per Day			Million Barrels
1973	AVERAGE	3,693	502	-9	750	166	3,270	208
1974	AVERAGE	3,558	432	-28	665	174	3,123	4 218
1975	AVERAGE	3,424	277	-2	537	160	3,002	219
1976	AVERAGE	3,643	206	÷5	524	175	3,145	220
1977	AVERAGE	3,912	205	-27	514	165	3,410	230
1978	AVERAGE	4,046	166	14	492	167	3,568	225
1979	AVERAGE	4,153	195	-37	352	209	3,749	238
1980	AVERAGE	3,956	210	-23	311	198	3,634	4 247
1200	ATENAGE	0,300	210	-23	311	190	0,004	211
1981	January	3,821	162	80	851	132	3,081	296
	February	3,723	182	-200	538	208	2,958	302
	March	3,722	230	-55	642	210	3,043	304
	April	3,711	230	24	733	192	3,040	303
	May	3,892	229	-58	594	238	3,231	305
	June	3,925	218	-29	656	197	3,261	306
	July	3,852	149	284	791	212	3,282	297
	August	3,876	276	-33	676	219	3,225	298
	September	3,718	285	215	883	176	3,159	291
	October	3,503	241	193	710	227		
	November	3,579	262				3,000	285
	December	3,543		33	784	154	2,935	284
	AVERAGE	3,739	243 226	71 46	805 723	223 1 99	2,829 3,088	282
	ATENAGE	0,103	220	40	123	199	3,000	
1982	January	3,171	269	-7	624	180	2,631	282
	February	3,403	305	-153	663	138	2,755	287
	March	3,466	243	-191	725	161	2,631	293
	April	3 408	309	73	796	204	2,790	290
	May	3,317	318	184	824	210	2,785	285
	June	3.547	315	123	812	216	2,954	281
	July	3,660	408	-1	856	187	3,023	281
	August	3,583	346	217	743	202		
	September	3,533	375	105	749	213	3,201	274
	October	3,529	383	244	915		3,051	271
	November	3,498	423	-28	837	266	2,976	264
	December	3,324	313	366		269	2,786	264
	AVERAGE	3,453	334	80	885 787	275 211	2,842 2,869	4 253
				•	707	411	2,009	
1983	January	3,222	297	-371	570	271	2,307	271
	February	3,270	287	-1	680	232	2,645	271
	March	3,400	298	-94	570	249	2,786	273
	April	3,363	377	3	596	247	2,901	273
	May	3,448	364	26	694	242	2,902	273 273
	June	3,674	427	99	715	292	2,902 3,197	
	July	3,703	393	106	757	209	0,187	270
	August	3,774	435	23	689		3,237	266
	September*	3,861	460	-31		242	3,302	266
	AVERAGE	3,526	371	-27	768	236	3,287	267
		-,	4/ /	-21	671	246	2,978	

Includes natural gasoline and isopentane, unfractionated stream, plant condensate, other liquids; and all finished petroleum products except finished motor gasoline, distillate fuel oil, residual fuel oil, and liquefied petroleum gases.

2 Stocks are totals as of end of period.

Stocks are totals as of end of period.
 A negative number indicates an increase in stocks and a positive number indicates a decrease.
 In January 1975, 1981, and 1983, significant numbers of new respondents were added to bulk terminal and pipeline surveys as a result of extensive investigation during the previous years. The major impact is on the reporting of stocks and stock withdrawals. Using the expanded coverage (new basis), end of year stocks would be: 1974-220, 1980-249, and 1982-259. Stock withdrawals during 1975, 1981, and 1983 are calculated using new basis stock levels.

Totals may not equal sum of components due to independent rounding.

See Explanatory Note 9.6.

Geographic Coverage: The 50 United States and the District of Columbia. Sources: See "Sources" at the end of this section.

Crude Oil and Petroleum Product Imports from OPEC Sources¹

		Algeria	Libya	Saudi Arabia	United Arab Emirates	Indo- nesla	Iran	Nigeria	Vene- zuela	Other OPEC ²	Total OPEC	Total Arab OPEC ³
				· · · · · · · · · · · · · · · · · · ·		Thousand	d Barrels	per Day				
1973	AVERAGE	136	164	486	71	213	223	459	1,135	106	2,993	915
1974	AVERAGE	190	4	461	74	300	469	713	979	88	3,280	752
1975	AVERAGE	282	232	715	117	390	280	762	702	122	3,601	1,383
1976	AVERAGE	432	453	1,230	254	539	298	1,025	700	134	5,066	2,424
1977	AVERAGE	559	723	1,380	335	541	535	1,143	690	287	6,193	3,185 2,963
1978	AVERAGE	649	654	1,144	385	573	555	919	645	226	5,751	
1979	AVERAGE	636	658	1,356	281	420	304	1,080	690	212	5,637	3,056
1980	AVERAGE	488	554	1,261	172	348	9	857	481	130	4,300	2,551
1981	January	341	500	1,284	93	424	0	908	549	27	4,127	2,219
	February	381	468	1,122	93	406	0	866	463	92	3,891	2,064 1,912
	March	352	485	1,027	47	328	0	771	360	54 39	3,425 3,245	1,867
	April	263	485	1,034	68	307	0	812	237		3,243	1,796
	May	393	443	933	17	297	0	664 528	331 248	124 118	2,922	1,703
	June	356	380	865	60	367	-		466	38	3,233	1,757
	July	333	251	1,073	80	340	0	651 321	523	84	3,070	1,765
	August	348	274	1,082	61 06	377 371	0	323	359	149	3,264	2,063
	September	336	154	1,477	96 90	427	0	412	389	172	3,220	1,820
	October	242	147	1,342	112	353	0	517	535	56	3,184	1,724
	November	210	132	1,270 1,045	158	400	ő	684	411	132	3,129	1,502
	December	176 311	122 319	1,129	81	366	Ö	620	406	90	3,323	1,848
	AVERAGE	311	318	1,125	01				•		•	•
1982	January	254	161	877	111	289	0	663	376	128	2,859	1,403
	February	139	92	693	89	244	0	584	355	102	2,297	1,054
	March	91	37	555	155	200	0	522	399	91	2,051	860
	April	85	0	511	122	215	0	427	426	85	1,871	740
	May	179	0	601	116	236	0	222	422	54	1,830	897
	June	115	0	593	94	215	72	537	361	110	2,096	820 965
	July	159	0	660	108	327	69	910	356	95	2,685	818
	August	181	0	489	133	271	27	574	299	133 69	2,107 1,943	677
	September	179	0	432	57	191	21	477	518 504	106	2,084	810
	October	249	7	494	61	242	108 34	313 479	528	115	2,235	797
	November	247	14	489	47	283 265	34 88	462	399	73	1,690	421
	December	155	0	237	12	248	35	514	412	97	2,146	854
	AVERAGE	' 170	26	552	92	248	35	314	412		•	
1983	January	204	0	282	47	255	43	186	324	43	1,384	533
	February	104	0	214	9	217	0	92	371	28	1,035	326
	March	63	0	103	0	138	0		425	173	1,023	183
	April	228	0	180	(s)	210	0		508	125	1,438	409 419
	May	284	0	122	12	324	37	352	444	69	1,645	419 515
	June	300	0	175	40	502	38		335	146	1,938	519 5 9 9
	July	282	0	182	58	464	112		431	187	2,240	866
	August	370	0	426	45	416	213		477	230	2,641	
	September	413	0	587	21	516	86		472	208	2,627	1,074 548
	AVERAGE	251	0	252	26	339	60	297	421	135	1,780	040

Excludes petroleum imported into the United States indirectly from OPEC countries, primarily from Caribbean and West European areas, as refined petroleum products which were refined from crude oil produced in OPEC countries.
 Includes Ecuador, Gabon, Iraq, Kuwait, and Qatar.
 Includes Algeria, Libya, Saudi Arabia, United Arab Emirates, Iraq, Kuwait, and Qatar.

Totals may not equal sum of components due to Independent rounding.

Note: Beginning in October 1977, Strategic Petroleum Reserve imports are included.

Geographic coverage: The 50 United States and the District of Columbia.

Sources: See "Sources" at the end of this section.

⁽⁸⁾ Less than 500 barrels.

Crude Oil and Petroleum Product Imports from Non-OPEC Sources¹

		Baha- mas	Canada	Mexico	Nether- lands Antilles	Trinidad and Tobago	United Kingdom	Puerto Rico ²	Virgin Islands ²	Other	Total
					Tł	ousand Ba	rrels per D	ay			
1973	AVERAGE	174	1,325	16	585	255	15	99	329	465	3,263
1974	AVERAGE	164	1,070	8	511	251	8	90	391	340	2,832
1975	AVERAGE	152	846	71	332	242	14	90	406	300	2,454
1976	AVERAGE	118	599	87	275	274	31	88	422	353	2,247
1977	AVERAGE	171	517	179	211	289	126	105	466	550	2,614
1978	AVERAGE	160	467	318	229	253	180	94	429	484	2,613
1979	AVERAGE	147	538	439	231	190	202	92	431	548	2,819
1980	AVERAGE	78	455	533	225	176	176	88	388	491	2,609
1981	January	39	543	401	198	150	233	89	494	552	2,701
	February	84	546	437	227	163	271	46	481	626	2,881
	March	74	472	488	227	93	263	45	370	571	2,603
	April	68	412	418	198	139	402	40	365	380	2,423
	May	122	365	522	213	105	368	58	344	474	2,573
	June	51	353	538	196	124	397	67	262	525	2,513
	July	77	382	384	212	178	553	50	206	541	2,583
	August September	69	378	489	255	123	592	68	184	539	2,698
	October	111 63	423	708	163	169	528	72	265	661	3,100
	November	63	449	669	161	121	351	60	303	562	2,739
	December	70	547 501	628 587	168	108	253	76	294	421	2,557
	AVERAGE	74	447	522	148 197	125 133	280 375	73 62	367 327	563 534	2,714 2,672
1982	January	58	513	425	170	400					·
	February	67	537	476	179 221	106	346	62	334	452	2,474
	March	43	437	503	189	120	181	38	362	508	2,510
	April	82	360	476	184	118	294	62	307	480	2,433
	May	77	419	766	152	166 95	247 516	36	266	690	2,507
	June	32	481	797	148	129		47 50	302	607	2,981
	July	64	536	783	158	118	557 433	58	322	708	3,231
	August	80	443	853	145	106	520	38 24	376 317	698	3,204
;	September	92	493	897	195	89	631	51	278	650	3,137
	October	45	459	682	148	109	666	52	276 262	746	3,472
i	November	51	553	860	212	90	623	81	334	801	3,222
1	December	88	561	689	174	102	438	48	336	706 480	3,508
	AVERAGE	65	482	685	175	112	456	50	316	627	2,916 2,968
1983 .	January	68	536	849	218	73	315	40	299	Enn	
	February	92	592	722	179	81	193	50	299 192	588 554	2,988
	March	86	488	760	187	78	240	43	162	554 560	2,655
	April	167	452	981	216	85	421	20	183	563 781	2,606
	May	135	501	944	153	108	483	42	235	781 651	3,306
	June	137	576	831	181	120	424	48	250 252	712	3,252
	July	69	633	849	191	103	369	37	364	836	3,281
	August	142	540	891	194	90	461	40	313	725	3,450
S	September	137	523	832	251	82	472	33	308	725 822	3,395
	AVERAGE	115	537	852	197	91	377	39	257	693	3,461 3,158

¹ Includes petroleum imported into the United States indirectly from OPEC countries, primarily from Caribbean and West European areas as refined petroleum products which were refined from crude oil produced in OPEC countries.

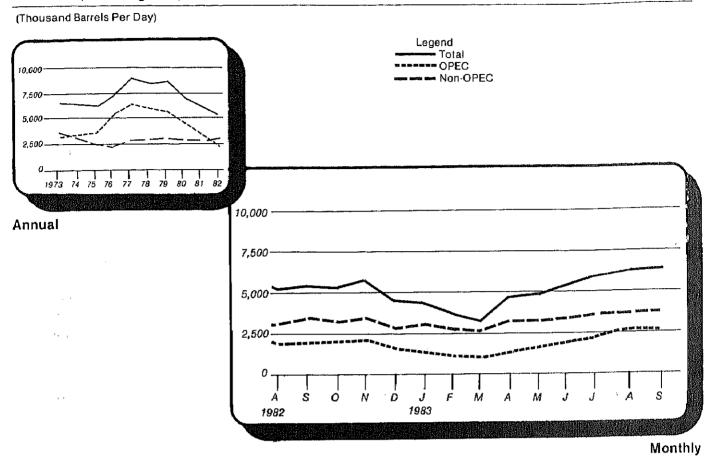
2 U.S. Possessions.

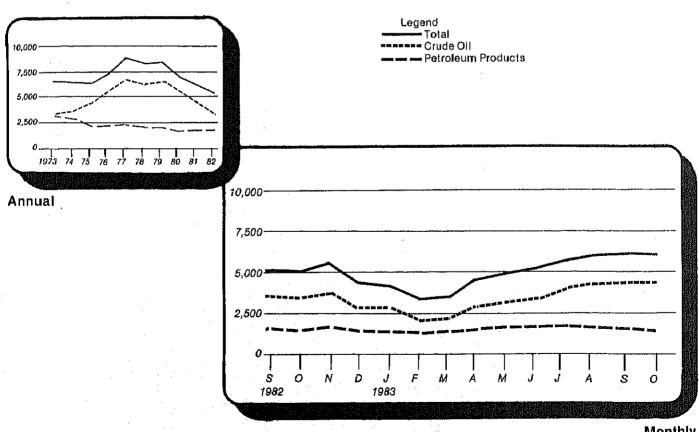
Totals may not equal sum of components due to independent rounding.

Note: Beginning in October 1977, Strategic Petroleum Reserve Imports are included.

Geographic coverage: The 50 United States and the District of Columbia. Sources: See "Sources" at the end of this section.

Crude Oil (including SPR) and Petroleum Products Imports





Sources

- 1973 through 1976: Bureau of Mines, U.S. Department of the Interior, Petroleum Statement, Annual and PAD Districts Supply/Demand, Annual, Mineral Industry Surveys.
- 2. 1977 through 1980: Energy Information Administration, U.S. Department of Energy, *Monthly Petroleum Statistics Report*, (unleaded gasoline category).
- 1977 through 1980: Energy Information Administration, U.S. Department of Energy, Petroleum Statement, Annual and PAD Districts Supply/Demand, Annual, Energy Data Reports.
- 4. January 1981 through December 1982: Energy Information Administration, U.S. Department of Energy, *Petroleum Supply Annual*.
- 5. January 1983 through September 1983: Detailed statistics in appropriate Issues of the *Petroleum Supply Monthly*. (See Explanatory Notes 9.1 through 9.6).
- 6. October 1983: Estimates based on EIA weekly data (except domestic crude oil production) (see Explanatory Note 1.1).
- 7. January 1983 through October 1983: Domestic crude oil production estimate based on historical statistics from State Conservation Agencies the U.S. Geological Survey. (See Explanatory Note 3).

Detailed Statistics

Table 1. U.S. Petroleum Balance, September 1983

<u>-</u>	Cullen	t Month	Year-to-date		
	Thousand Barrels	Thousand Barrels per Day	Thousand Barrels	Thousand Barrel per Day	
Crude Oil (Including Lease Condensate)					
Field Production					
) Alaska	E 51,663	1,722	E 467.678	1,713	
Lower 48 States	E 208,311	6,944	E 1,897,743	6,951	
Total U.S.	E 259,974	8,666	E 2,365,421	8,665	
Net Imports		-,	1,000,111	0,000	
Imports (Gross Excluding SPR)	117,354	3,912	831.673	3,046	
SPR Imports	9,266	309	67,933	249	
Exports	5,315	177	47,108	173	
Imports (Net Including SPR)	121,304	4,043	852,499	3,123	
Other Sources	,	1,5 1.5	002,400	0,125	
SPR Withdrawal (+) or Addition (-)	-9.220	-307	-67,173	-246	
Other Stock Withdrawal (+) or Addition (-)	3,477	116	-1.589	-6	
Product Supplied and Losses	-2.007	-67	-18,088	-66	
Unaccounted for 1	-188	-6	55,955	205	
Total Other Sources	-7,938	-265	-30,895	-113	
Crude Input to Refineries	373,340	12,445	3,187,025	11,674	
(13) = (3) + (7) + (12)	070,040	(2,440	0,107,025	11,074	
Natural Gas Plant Liquids (NGPL)					
) Field Production	47,930	1.598	424,370	1,554	
) Imports 2	575	1,558	3,689	*	
Stock Withdrawal (+) or Addition (-) 2	526	18	,	14	
			~5,305	-19	
) Total NGPL Supply Other Liquids	49,031	1,634	422,754	1,549	
Unfinished Oils and Gasoline Blending Components, Total					
) Stock Withdrawal (+) or Addition (-)	-591	-20	-5,529	-20	
Imports	9,876	329	70,512	258	
Other Hydrocarbons and Alcohol New Supply (Field Production)	1,797	60	14,525	53	
Refinery Processing Gain 1	15,041	501	129,257	473	
Crude Oil Product Supplied	1,991	66	17,672		
	•		,	65	
Total Other Liquids	28,114	937	226,437	829	
(23) = (18) through (22)	150 100	15.010	0.000.040	44.555	
) Total Production of Products 3	450,486	15,016	3,836,216	14,052	
Not Imports of Refland Bradusts 3	·				
Net Imports of Refined Products 3) Imports (Gross)	45,560	1,519	374,402	1,371	
Exports		507	164,711		
	15,216		,	603	
Imports (Net)	30,345	1,011	209,691	768	
Total New Supply of Products	480,830	16,028	4,045,907	14,820	
(28) = (24) + (27)	100,000	(0)010	10.101001	1-14020	
) Refined Products Stock Withdrawal (+-) or Addition (-) 3	-18,964	-632	49,464	181	
) Total Petroleum Products Supplied for Domestic Use	461,866	15,396	4,095,371	15,001	
(30) = (28) + (29)	•				
Finished Motor Gasoline	200,805	6,693	1,800,291	6,594	
Distillate Fuel Oil	77,039	2,568	707,708	2,592	
Residual Fuel Oil	39,716	1,324	384,818	1,410	
Liquefled Petroleum Gases	43,719	1,457	378,783	1,387	
	98,598	3,287	806,099	2,953	
Other4					
Crude Oil	1,991	66	17,672	65 45 001	
(37) = (31) through (36)	461,866	16,396	4,095,371	15,001	
		-			
Ending Stocks, All Oils Crude Oil and Lease Condensate (Excluding SPR)	351,633	***	351,633		
Strategic Petroleum Reserve (SPR)	361,000		361,000		
	112,645		112,645		
	40,706		40,706		
Gasoline Blending Components					
Natural Gasoline and Unfractionated Stream ²	16,773		16,773		
Finished Refined Products 3	609,392		609,392		
Total Stocks	1,492,149		1,492,149		

¹ A balancing item.
2 Includes isopentane, natural gasoline, unfractionated stream, and plant condensate only.
3 For products included see Explanatory Note 9.7.
4 Includes natural gasoline and isopentane, unfractionated stream, plant condensate, other liquids; and all finished petroleum products except finished motor gasoline, distillate fuel oil, residual fuel oil and liquelied petroleum gases.

E = Fatimeted.

E = Estimated.
-- Not Applicable.

Note: Totals may not equal sum of components due to independent rounding. Sources and estimation procedures: See Explanatory Notes 1, 2 and 9.7.

Table 2. Supply and Disposition of Crude Oil and Petroleum Products, September 1983 (Thousand Barrels)

			Supply					Disposition		
Commodity	Field Produc- tion	Refinery Produc- tion	Imports	Stock With- drawal (+) or	Unac- counted For Crude	Crude	Refinery Inputs	Exports	Products Supplied	Ending Stocks
Crude Oil (including lease condensate)	E 259,974	0	126,619	-5.743	-188	Ť.	373 340	5.245	1 901	712 633
National Good Services and Co.			•	!	}	?	2000	2		7.4,000
Natural Gaeofine and Incommen	47,567	10,912	5,919	-158	0	0	13.802	2.589	47.849	135.624
Unfractionated Stream		0	437	տ	0	0	5,732	0	4.128	7.008
Plant Condonnate		0	0	482	0			· c	2	333
Liquid Detroloum Copp.		0	138	49	0	• •	225		,	0.54
Ethere		10,912	5,344	-684	0	· c	7 093	2589	43 719	118.851
Propose		573	1,431	866-	. 0	• •	99	(8)	190 8	5,884
Britano		8,220	1,345	619	0	c	5 E	.1.260	21.468	62 284
Butana Propago Michiga		1,935	1,035	488	φ	0	3.775	925	3 703	26.041
Ethana Discopa Mishings		185	374	-134	0	c	261	90	303	1813
Sobitane	8,01	0	1,159	76	0	0	0	• •	9.247	12.748
	2,652	7	0	241	0	٥	2,855	٥	37	10,081
Other Liquids	1 707	4		i			<u> </u>			
Other Hydrocarbons and Alcohol	707	o c	9/9/5	-591	0	0	16,321	٥	-5,239	153,351
Unfinished Oils		> c	0 000	96 j	0	0	1,707	0	0	397
Motor Gasoline Blending Components	.	> (8,636	-2,132	0	0	9,915	0	-3,411	112,645
Aviation Gasoline Blending Components	> 0	> (1,241	1,585	0	0	4,653	0	-1,827	39,984
	>	5	0	46	0	0	46	0	0	325
Finished Petroleum Products	363	407 502	40.047	9	(
Finished Motor Gasoline	4	107 404	7,01	18,280	0	0	0	12,627	417,265	490,541
Finished Leaded Motor Gasoline	2 6	85 454	\$ 00 u	4,801	Φ.	0	0	411	200,805	189,679
Finished Unleaded Motor Gasoline	4	110 959	0,0	/6/	0	0	0	411	90,671	94,610
Finished Aviation Gasoline	159	807 807	504,5	-5,598	ο,	ο.	0	0	110,134	95,069
Naphtha-Type Jet Fuel	<u>-</u>	203	- c	2 6	ο,	0	0	0	982	2,543
Kerosene-Type Jet Fuel		26,870	300	002-	D ·	0	0	(s)	5,673	6,805
Kerosene	er.	2,00	Š č	DEE, 1	0	0	0	270	26,510	34,985
Distillate Fuel Oil	· -	2,7,7	100	126-	0	0	0	ιΩ	2,891	9,194
Residual Fuel Oil	- c	24.448	2000	802,11-	o :	0	0	1,097	77,039	154,748
Naphtha < 400 Deg. for Petro, Feed, Use	· c	777	20,036	865,1-	٥.	0	0	4,032	39,716	49,691
Other Oils > 400 Deg. for Petro. Feed 11se	o c	יילי פילים פילים	1 4	-145	0	0	0	171	4,501	2,066
Special Naphthas	2 5	0 10 1	>	-92	0	0	٥	591	6,895	2,157
Lubricants	<u></u>	81/1	176	96	0	0	0	403	2.092	3,165
Waxes)	4,672	248	496	0	0	0	555	4.862	10,954
Petroleum Coke	.	425	4	7	0	0	0	50	505	746
Acabalt and Dood Oa	٥	12,885	0	-375	0	· c	· C	4 998	7.512	4 830
CAR Cac	0	15,144	391	2,129		· c	· c		17.660	17.120
Misselfasses a Deal Later	0	17,736	0		c	o c	0 0	o c	17,736	-
Miscellal eous Figures	92	1,931	316	-362	0	0	0	28.0	1,884	1,860
Total	200 704	44							•	•
	107'500	418,504	182,631	-24,772	-188	16	403,463	20,531	461,866	1,492,149
1 Unaccompany for solide of its a factorisation						İ				

Unaccounted for crude oil is a balancing item.
 Less than 500 barrels.
 = Estimated.
 Note: Total may not equal sum of components due to independent rounding.
 Sources and estimation procedures: See Explanatory Notes on Data Collection and Estimation.

Table 3. Year-to-Date Supply and Disposition of Crude Oil and Petroleum Products, January - September 1983 (Thousand Barrels)

					-			i		
1			Supply					Disposition		
	:			Stock	Unac					
• Commodity	Field	Refinery	1	With	counted	Crude	Refinery	i i	Products	Ending
	tion	tion	Shoqmi	drawai (+) or Addi- tion (-)	For Crude Oil1	Losses	Inputs	Exports	Supplied	Stocks
Crude Oil (including lease condensate)	E 2,365,421	0	899,607	-68,762	55,955	416	3,187,025	47,108	17,672	712,633
Natural Gas Liquids and I BGs	421.006	88.302	55.077	-21.438	0	0	120.142	22.764	400,041	135,624
Natural Gasoline and Isopentane	70,228	0	1,840	-1,021	0	0	49,808	0	21,239	7,008
Unfractionated Stream	5,445	0	0	-5,276	0	0	169	0	0	9,315
Plant Condensate	5,689	0	1,849	992	0	0	8,512	0	18	450
Liquefied Petroleum Gases	339,644	88,302	51,387	-16,133	o	0	61,653	22,764	378,783	118,851
Ethane	68,914	4,116	12,878	87	0	0	720	30	85,244	5,884
Propane	119,238	72,972	11,694	-4,047	0	O	1,115	13,651	185,091	62,284
Butane	55,331	10,043	11,858	-9,359	0	0	34,762	9,083	24,028	26,041
Butane-Propane Mixtures	1,484	1,000	4,786	312	0	0	2,091	0	5,491	1,813
Ethane-Propane Mixtures	69,559	0	10,171	-1,466	0	0	48	0	78,216	12,748
Isobutane	25,118	171	0	-1,660	o	0	22,917	0	712	10,081
	7		70 113	2 530		c	124 606	•	45,008	152 251
Other Light and Alabei	14,525	a c	40. 41.		•) C	14 439	• •	0	397
Office hydrocarporis and Architol	4,020		100	1 2 2	o c		200.05		707 00	110 646
Unithished Oils	.	5 6	0,1047 8,047	1 758) C	0 0	31 511	.	-20,888	39.984
Motor casowne blending Components	•		700'0	5.7	• •	o c		o c	480	200,00
Aviation Gasoline Blending Components	>	Þ	-	20	Þ	>	258	Þ	7	252
Finished Petroleum Products	3.364	3,472,728	323,014	65,597	0	0	٥	141,947	3,722,757	490,541
Finished Motor Gasoline	620	1,723,940	65,725	12,858	0	0	0	2,852	1,800,291	189,679
Finished Leaded Motor Gasoline	423	777,109	36,395	7,545	0	0	0	2,852	818,620	94,610
Finished Unleaded Motor Gasoline	197	946,831	29,330	5,313	0	0	0	D	981,671	95,069
Finished Aviation Gasoline	862	6,209	212	-229	0	Φ	0	0	7,054	2,543
Naphtha-Type Jet Fuel	0	57,272	0	384	0	0	0	201	57,455	6,805
Kero-ene-Type Jet Fuel	- ;	222,362	7,021	-2,984	۰.	0 (0 •	1,099	225,301	34,985
Kerosene	င္က :	27,888	1,947	1,598	0 6	5 6	5 6	77 77	095,15	40.40
Distillate Fuel Oil	Ξ,	653,776	100,14	30,831)	o (o 0	10,41	00,100	04,140
Residual Fuel Oil	0 (231,054	188,622	18,538		-	o c	906	004,010	20,05
Naphina < 400 Deg. for Petro. Feed. Use	5 'C	20,000		9 6				2007	10101 10101	2 157
Other Oils > 400 Deg. for Petro. Feed. Use	2 6	14.040	7 - 4	2 6	o c	0 0	c	, 609	20,554	3.165
Special Naphthas	0 0	4,0,00	7	2 234	o c	o c		7 404	38 833	10.054
Libricants	> •	60,600	2,033	2,42	o c	> C	.	107	70,00	902
Waxes	o 6	4,040	202	4 40 1 40	.	O C	o c	54 459	60.357	4 830
Peroleum Coke	5 6	000000	0 130		· c		· c	234	107.048	-17 118
Asphait and Hoad Oil	9 0	004.07		<u>.</u>	o c	c	, c	6	149.592	
Sall Gas		280,041	7 200	2 02	o c	o c		274	20,545	1 860
Miscellaneous Products		15,420	28.5.4	ñ	5	>	Þ	t 77	2,00	861
Total	2.804.316	3,561,030	1,348,209	-30,132	55,955	416	3,431,773	211,818	4,095,371	1,492,149
									:	

¹ Unaccounted for crude oil is a balancing it m.

(s) Less than 500 barrels.

E = Estimated.

Note; Total may not equal sum of compone & tue to independent rounding.

Sources and estimation procedures: See Explanatory Notes on Data Collection and Estimation.

Table 4. Daily Average Supply and Disposition of Crude Oil and Petroleum Products, September 1983 (Thousand Barreis per Day)

			Supply			}	Dispo	Disposition	
Commodity	Field Produc- tion	Refinery Produc- tion	Imports	Stock With- drawal (+) or Addi- tion (-)	Unac- counted For Crude	Crude Losses	Refinery	Exports	Products Supplied
Crude Oil (including lease condensate)	€ 8,666	0	4,221	-191	۴	-	12,445	177	99
Natural Gas Lincids and LOC-									
Natural Casoline and Isonostone	1,586	364	197	Ϋ́	0	0	460	98	1,595
Unfractionated Stream	314	0	45	(s)	0	0	191	0	138
Plant Condensate	-16	0	0	16	0	0	0	0	0
Ligitation Detroising Cocon	8	0	S	cv.	0	0	33	0	<u>(s)</u>
Ethane	1,261	385	178	-53	0	0	236	96	1,457
Propane	ò ;	5	84	ဗ္ဂ	0	0	2	(s)	599
Butane	423	274	45	23	0	0	4	42	716
Bittane-Propose Michael	211	92	32	-16	0	0	126	44	123
Ethano Droppo Midding	'n	9	12	4	0	0	O	0	9
Sobirtana	267	0	33	Ġ	0	0	0	0	308
Dimino.	88	(s)	0	80	0	0	96	0	-
Other Liquids	9	•	C	\$	•	4	;	•	ļ
	8 6	• •	77	07.°		.	946	- (6/1-
Unfinished Oils	3 9	0 0	0 6	? ;	0	0	27	o	0
Motor Gasoline Blending Components	.	> 0	987	-71	0	0	331	0	-114
Aviation Gasoline Riending Composeets	> 6	٠ د	4	22	0	0	155	0	<u>6</u>
Silending Silending Silending	0	0	0	C)	0	0	2	0	0
Finished Petroleum Products	ç	40 606	1	į			1		
Finished Motor Gasoline	<u>.</u>	000,0	1,34.1	609	•	0	0	421	13,909
Finished Leaded Motor Gasoline	V 7	080'0	582	-160	0	0	0	14	6,693
Finished Unleaded Motor Gasoline	- ,	7,838	170	27	0	0	0	4	3,022
Finished Aviation Gasoline	۱	3,742	115	-187	0	o	0	0	3,671
Nanhtha-Two let Engl	o.	27	(s)		0	0	0	0	33
Kerosene-Type for Engl	٥,	198	0	G ¹	0	0	0	<u>(s)</u>	189
Kerosone	0	968	4	-45	0	0	0	6	884
Distillate End Oil	<u>(s)</u>	117	10	ဗို	0	0	0	(8)	96
Recidial First Oil	(S)	2,725	253	-374	0	0	0	37	2,568
Naphtha / Ann Don for Date Transition	0	815	069	-47	0	0	0	134	1,324
Other Oils / 400 Dog for Date Tall I	0	159	-	φ	0	0	0	9	150
Special Nachthas	φ.	253	0	ማ	0	0	0	20	230
Lubricante	ო	22	5 6	ကု	0	0	0	5	20
Wave	0	156	œ	17	0	0	0	18	162
Detail Anna	0	7	-	2	0	C	C		14
	0	430	0	-13		0	0	167	250
Aspnait and Hoad Oil	0	505	13		· c	· c	, c	2	085
Still Gas	0	591	0		, c	o c	· c		969
Miscellaneous Products	N	49	=	-12	0	0	0	ο α	3 8
Total									
1 VIII *********************************	10,323	13,950	6,088	-826	φ	-	13,449	684	15,396
1 Inaccounted for saids oil is a holosoil at									

Unaccounted for crude oil is a balancing item.

(s) Less than 500 barrels.

E = Estimated.

Note: Total may not equal sum of components due to independent rounding.

Sources and estimation procedures: See Explanatory Notes on Data Collection and Estimation.

Table 5. Year-to-Date Daily Average Supply and Disposition of Crude Oil and Petroleum Products, January - September 1983 (Thousand Barrels per Day)

			Aidding	-			Disposino	Sinon	
Commodity	Field Produc- tion	Refinery Produc- tion	Imports	Stock With- drawal (+) or Addi- tion (-)	Unac- counted For Crude Oil1	Crude Losses	Refinery Inputs	Exports	Products Supplied
Crude Oil (including lease condensate)	E 8,665	0	3,295	-252	205	8	11,674	173	65
Natural Gas Liquids and LRGs	1,542	323	202	6/-	6	0	94	8	1,465
Natural Gasoline and Isopentane	257	0	7	4	0	0	182	0	78
Unfractionated Stream	50	0	01	-19	0 (0	*- 3	0	0
Plant Condensate	277	333	, 484 188	1 4 0.7	- C	-	. 32 28	- e	(s) 1.387
Ethane	252	5	47	(s)	0	0	, m	(s)	312
Propane	437	267	43	-15	0	0	4	20	678
Butane	203	37	£ 43	¥,	0 (00	127	99	888
Butane-Propane Mixtures	25.5	4 0	18	- પ	-	o c	o @	0 0	287
Ethane-Propane Mixures	65	·-	5 0	7 47	0	0	84	0	9
Other Liauids	23	0	258	-20	0	•	456	0	-165
Other Hydrocarbons and Alcohol	53	0	0	(S)	0	0 (53	0 (۱ -
Unfinished Oils	0	0	226	-27	0 (٥ (586	> (i i
Motor Gasoline Blending Components	0 0	0 0	8	ω +	o c	-	5	> C	, c
Aviation Gasoline Blending Components	5	5	<u> </u>	-	•	•	1	o	j
Finished Petroleum Products	12	12,721	1,183	240	0	0 (0 (520	13,636
Finished Motor Gasoline	~	6,315	241	47	0 (0 0	0 0	5 5	6,594
Finished Leaded Motor Gasoline	οι τ	2,847	133	8 5	5 C	00	.	<u> </u>	3,596
Finished Unleaded Motor Gasonire	- 01	3 6	5	; ;	0	0	0	0	56
Naphtha-Type Jet Fuel	0	210	0	•	0	0	0	-	210
Kerosene-Type Jet Fuel	(s)	815	5 8	7	0 (0 (0 (4	825
Kerosene	© :	102		ю ;	0 0	5 C	5 6	(s) £7	0 1 0
Distilate Fuel Oil		2,335 846	152 691	113 68	0	00	Φ	196	1,410
Name / 400 Day for Patro Feed Like	0	141	13) (S)	0	0	0	4	150
Other Oils > 400 Deg. for Petro. Feed. Use	0	259	-	(s)	0	0	0	9,	245
Special Naphthas	ဇ	54	8	•	0	o 4	0 (en (τ, τ,
Lubricants	0	143	α , τ	α ,	0 0	00	o c	ا 5	142 7. r
Waxes	-	414	- c	(e) 2	0 0	0	0	199	221
Asshet and Boad Oil	0	382	0	. +	• •	0	0	-	392
Still Gas	0	548	0	0	o	0	0	0	548
Miscellaneous Products	ო	25	16	(s)	0	0	0	•	75
Total	10,272	13,044	4,938	-110	205	N	12,571	776	15,001

Unaccounted for crude oil is a balancing item.
 Less than 500 barrels.
 Estimated.
 Note: Total may not equal sum of components due to independent rounding.
 Sources and estimation procedures: See Explanatory Notes on Data Collection and Estimation.

Table 6. PAD District I, Supply and Disposition of Crude Oil and Petroleum Products, September 1983 (Thousand Barreis)

(company)						-					
			Ü	Sinnty				Dispo	Disposition		
Commodity	Field Produc- tion	Refinery Produc- tion	Imports	Stock With- drawal (+) or Addi- tion (-)	Unac- counted For Crude Oil1	Net Receipts	Crude	Refinery	Exports	Products Supplied	Ending Stocks
Crude Oil (including lesse condensate)	E 2,352	0	27,455	1,651	-2,148	4,841	0	34,151	0	0	15,858
	ļ	!	;		•	,	ć	č	147	4 256	5.959
hattial das Liquids and LRGs	842 722	1,217	418 33.4	1282	5 C	2,411	.	65	147	4,105	5,864
Other Products ²	12	0	8	42.5	0	0	0	53	0	151	92
Other I initial	Š	•	,		c	ľ	c	2 292	¢	-829	21,242
Other Lightonskens and Market	412	0 (4,452	147.5-	> <	ñ ^c	> C	4.2	· c	C	163
Linguished Oils	, 1	5) (1011	> C	5 C	o c	2301	0	-760	15,665
Motor Gasoline Blanding Components	0 0	> C	4,132	2,020	0 0	š	0 0	-115	0	-70	5,407
Aviation Gasofine Blending Components	0 0	0 0	<u>,</u>	100-	.	o c	0	-7	0	0	7
	>	5	•	ī	•	,	•				
Finished Petroleum Products	4	36,789	33,935	-6,511	a	060'69	0	0	1,024	132,320	172,723
Finished Motor Gasoline	41	17,573	7,306	-950	0	41,877	0	o	-	65,847	58,691
Finished Leaded Motor Gasoline	52	6,354	4,494	-71	0	15,879	0	0	-	26,681	30,036
Finished Unleaded Motor Gasoline	16	11,219	2,812	-879	0	25,998	0	0	0	39,166	28,655
Finished Aviation Gasoline	0	-		47	0	203	0	0	0	252	420
Naphtha-Type Jet Fuel	0	398	0	97	0	508	0	0	(s)	1,003	946
Kerosene-Type Jet Fuel	0	1,107	967	-528	٥	8,336	0	0	(s)	9,882	8,977
Kerosene	0	48	300	-76	0	283	0	0	-	554	3,405
Distillate Fuel Oil	0	7,870	6,464	-5.582	0	13,870	0	0	127	22,496	67,506
Residual Fuel Oil	0	2,420	17,868	22	0	2,349	0	0	(s)	22,858	23,529
Naphtha and Other Oils for Petro. Feed	0	334	18	10	٥	187	0	0	37	512	37
Special Naphthas	0	35	128	5	0	116	0	0	370	4	689
Lubricants	0	969	202	310	0	613	0	0	100	1,726	3,009
Waxes	0	95	7	7	٥	7	0	0	9	102	155
Petroleum Coke	0	1.213	·	8	· c	. C	0	0	365	876	917
Asphalt and Road Oil	0	3,038	377	1 RP	0	445	0	0	2	3,777	4 319
Still Gas	0	1.747	C		· C	· C	C	0	0	1,747	0
Miscellaneous Products	٥	217	292	-56	0	296	Φ	0	15	734	393
T-6-1	;	!	1						į	1	740
1914] ************************************	3,449	38,006	66,260	-8,392	-2,148	76,279	0	36,537	L,1	135,747	79,4617
4 I foresteen the second for a first of the second											

¹ Unaccounted for crude oil is a balancing item.
2 Includes natural gasoline, isopentane, unfractionated stream, and plant condensate.
(s) Less than 500 barrels.
E = Estimated.
Note: Total may not equal sum of components due to independent rounding.
Sources and estimation procedures: See Explanatory Notes on Data Collection and Estimation.

Table 7. PAD District II, Supply and Disposition of Crude Oil and Petroleum Products, September 1983 (Thousand Barrels)

(Thousand Barrels)							į				
			Ŝ	Supply				Dispo	Disposition		
Commodity	Field Produc-	Refinery Produc-	Imports	Stock With- drawal (+)	Unac- counted For Crude	Net Receipts	Crude	Refinery	Exports	Products Supplied	Ending Stocks
	tion	tion	į	Addi- tion (-)	2			-			
Crude Oil (including lease condensate)	E 31,467	. 0	24,575	175	29,120	1,147	•	85,959	525	o	76,956
	8.063	2.360	4.127	1,011	0	3,053	0	4,352	1,692	13,469	43,439
Natural Gas Liquids and Littles	8,266	2,360	4,127	1,512	0	1,481	0	2,688	1,692	13,366	38,502
Other Products2	969	0	0	-501	0	1,572	0	1,564	>	<u>50</u>	4,93,
	349	C	503	1,300	0	911	0	3,099	0	98-	23,744
Other Liquids	349	0	0	18	0	0	0	367	0	0	102
Uther Hydrocarporis and Arcond		0	403	951	0	-78	0	1,039	0	237	16,053
States Cocaling Disading Components		0	100	341	0	686	0	1,703	0 (-273	7,469
Aviation Gasoline Blending Components		0	0	-10	٥	0	0	0-	0	0	22
•	u	94 576	604	-1.528	0	21,544	0	•	439	114,764	123,094
Finished Petroleum Products		20.00	13	-1281	0	12,933	0	0	164	65,462	58,242
Finished Motor Gasoline	,	24 280		1.490	0	6,474	o	0	164	32,145	28,890
Finished Leaded Motor Gasonife		29 621	œ	-2,771	0	6,459	0	D	0	33,317	29,352
Finished Unleaded Mold! Gasonials		6	0	-53	0	185	0	0	0	224	653
Finished Aviation Gasoline	,	882	0	122	0	131	0	0	0	1,135	1,364
Naphtha-Type Jet Fuel	,	3,517	0	320	o	1,353	0	0	o ·	5,190	7,511
Nerosene-Lype det Luei		705	-	-121	0	7	0	0	4 (200	N 00
		19,962	175	-2,433	0	6,804	0 (0 0	5 (24,500	23, 12
Besidial Fuel Oil	0	1,826	299	208	0 (-/43	5 C	•	7 6	- 560	727
Naphtha and Other Oils for Petro. Feed.		1,042	7	- 6	5 6		o c	0 0	· +-	999	250
Special Naphthas		478	8	יי איני	o c		0 0		. 6	066	1,923
Lubricants	· ·	289	n (n +	S C	3	· C	· C	(s)	47	73
Waxes		9 50	N C	2 2	-	• •	0	0	175	3,059	723
Petroleum Coke	:	7 7 7	7	1 594	· C	909	0	٥	(8)	6,315	6,917
Asphalt and Road Oil	;	4 005	- 0	0	0	0	0	0	0	4,006	0
Still Gas Manufacture Products	· · ·	170	4	-65	0	-190	0	0	(<u>s</u>)	-75	229
			1	•	0	9	•	93 410	2 656	128.197	267.233
Total	40,784	96,936	29,809	808	23,120	660,07	•	211,000			

¹ Unaccounted for crude oil is a balancing item.
2 Includes natural gasoline, isopentane, unfractionated stream, and plant condensate.
(s) Less than 500 barrels.
(s) Less than 500 barrels.
(e) E. Estimated.
Note: Total may not equal sum of components due to independent rounding.
Note: Total may not equal sum of components. See Explanatory Notes on Data Collection and Estimation.

Table 8. PAD District III, Supply and Disposition of Crude Oil and Petroleum Froducts, September 1983

			Supply	yldo		•		ا ا	Dienosition		
Commodity	Field Produc- tion	Refinery Produc- tion	Imports	Stock With- drawal (+) or Addi- tion (-)	Unac- counted For Crude Oil1	Net Receipts	Crude	Refinery Inputs	Exports	Products Supplied	Ending Stocks
Crude Oil (including lease condensate)	E 124,455	0	67,158	-7,190	-22,765	14.383	4	176.018		97	522 543
Natural Gas Liquids and LRGs Liquefied Petroleum Gases Other Products2	34,393 27,549 6,844	6,06 1 6,061 0	374 374	-518 -1,557		-4,137 -3,657	• • •	8,246 3,684	658 658 658	27,269	81,542
Other Liquids		•	, ,		>	ē T	>	4,562	Ö	2,841	11,125
Other Hydrocarbons and Alcohol	614	90	4. 0.0	906	00	-1,081	0	8,296	0	-5,504	72,883
Motor Gasoline Blending Components	0 0	0	4,009	-1,440	00	-92	0	5,578	0	-3.101	123 54.718
Aviation Gasoline Blending Components	-	00	156	492	0 (-989	0	2,062	0	-2,403	17,884
	•	•	>	4	0	0	٥	48	0	0	158
Finished Petroleum Products Finished Motor Gasoline	307	192,732	4,067	~9,435	0	-94,020	0	0	5,592	88.060	129.479
Finished Leaded Motor Gasoline	> c	88,907	714	-3,199	0	-56,230	0	0	(s)	30,191	47,085
Finished Unleaded Motor Gasoline	0 0	57,121	460	-1,108	0	-23,093	0	0	(s)	13,379	23,488
Finished Aviation Gasoline	159	360	4 0	180,5-	0 0	-33,137	0 1	0	0	16,812	23,597
Naphtra-Type Jet Fuel	0	2,747	00	120	-	5 4 4 5 4 4	00	00	00	191	836
Kerosene	0 (14,150	176	413	0	-10,305	0	0	240	3 368	11.618
Distillate Fuel Oil	+ מי	2,563	(S)	-674	0	-354	0	0	(s)	1.538	3,275
Residual Fuel Oil	- c	11 082	645 665	888,5	O	-20,875	0	0	203	15,261	34,659
Naphtha and Other Oils for Petro. Feed,	. 0	10,421	22	153	0 0	-2,542	0 (0 (1,877	7,768	13,823
Lubricants	97	1,096	595	-170	0	230	o c	o c	4	9,440 776 t	2,520
Waxes	00	2,921	ន	27	0	888	0	0	376	1.707	4.747
Petroleum Coke	o c	200	27 °	25	0	-7	0	0	24	284	464
Asphalt and Road Oil	0 0	4 804	> c	25.5	0	0	0	0	2,164	2,671	951
Still Gas	0	7.985	o c	-233	0 0	-1,053	0	0	(s)	3,518	3,665
Miscellaneous Products	47	1,314	ο α	0.55	5 6	0 (0	0	۱٥	7,985	0
Total		ļ	,	1	>	P	Þ	0	35	1,030	982
	159,769	198,793	75,764	-18,049	-22,765	-84,855	4	192,560	6.249	109.851	806.447
1 Unaccounted for endo of its a believe the								•			

Unaccounted for crude oil is a balancing item.
 Includes natural gasoline, isopentane, unfractionated stream, and plant condensate.
 Less than 500 barrels.
 Estimated.
 Note: Total may not equal sum of components due to independent rounding.
 Sources and estimation procedures: See Explanatory Notes on Data Collection and Estimation.

Table 9. PAD District IV, Supply and Disposition of Crude Oil and Petroleum Products, September 1983

(Thousand Barrels)											
			ď.	Supply				Dispo	Disposition		
Commodify	Field Produc- tion	Refinery Produc- tion	Imports	Stock With- drawal (+) or Addi- tion (-)	Unac- counted For Crude	Net Receipts	Crude	Refinery	Exports	Products Supplied	Ending Stocks
Crude Oil (including lease condensate)	E 16,599	•	1,182	-351	-3,807	0	o	13,618	0	ស	12,821
									,		,
Mathematical Contider and 1958	2329	154	395	-54	0	-1,227	0	531	•	1,065	1,131
Maruel das Liquids and Lines	702	154	341	ξ	٥	-135	0	320	•	99	554
Uquened Petroleum Gases	1,627	0	<u>'</u>	ማ	0	-1,092	0	181	0	405	577
	c	c	8	-106	0	0	Q	-658	0	643	4,056
Other Liquids	•	•	; •		<	c		-	0	0	0
Other Hydrocarbons and Alcohol	5	0 0	2	- <u>o</u>	· c	· C	0	-649	0	721	2,475
Unfinished Oils	> (> c	<u> </u>	e a	0 0	· c	0	-10	0	-78	1,581
Motor Gasoline Blending Components	0	0	00	30	0	0	0	0	0	0	0
	5	19 550	140	884	c	176	0	0	4	14,784	9,344
Finished Petroleum Products	1 67	500°C	2 7	, t	· c	158	o	0	(8)	7,158	4,303
Finished Motor Gasoline	-	100,0	5 1	3 5		e c		~	.	4.403	2.647
Fnished Leaded Motor Gasoline		4,224	¥	- 14C	,	7 5	•			2755	1 658
Enished Unleaded Motor Gasoline		2,580	0	15	0	081	> (> 0	o c	3 6	25.
Enished Aviation Gasoline	0	ន	0	F	0	83	> (> (> 6	n d	750
Table Avenue Geografia	0	383	0	<u> </u>	0	-95	0	0	-	8	- i
Naphria-1ype Jet Fuel	0	685	0	-112	0	438	0	0	0	1,0,1	4.0
Nei Dadie-1 ype det 1 del	0	ဗု	0	9	0	0	0	0	5 (7 6	ان ان
	٥	3,629	83	355	0	-363	0 (0	5 C	4,000 4,000	2,003 474
Docided Fiel Oil	0	345	3	r _l	0	0	5 (> (> 0	4 6	† *
Nanhtha and Other Oils for Petro. Feed.		0	0	0	0	5	56	> c	V C	4 6	ro
Coocial Norbithee		ო	0	0	ο.	>	5	5 (> 1) ¢	٠ <u>٠</u>
Special repairing	٥	23	(8)	9	0	0	0	-	- (77	y c
	0	10	0	•	0	0	0	0	-	- :	- (
Waxes	c	282	0	гO	0	o	0	0	5	305	- 1 - 1
Petroleum Coxe		833	0	504	0	0	0	0	T	1,336	99
Asphait and Road Oil		525	a	0	0	0	o	0	0	529	יכ
Still Gas		8	(s)	O	0	0	0	0	0	4	S.
	49 027	13 793	1 8 18	373	-3.807	-1,051	0	13,491	υń	16,498	27,352
Total	100,01	2016			,						

1 Unaccounted for crude oil is a balancing item.
2 Includes natural gasoline, isopentane, unfractionated stream, and plant condensate.
(s) Less than 500 barrels.
E = Estimated.
Note: Total may not equal sum of components due to independent rounding.
Sources and estimation procedures: See Explanatory Notes on Data Collection and Estimation.

Table 10. PAD District V, Supply and Disposition of Crude Oil and Petroleum Products, September 1983 (Thousand Barrels)

			O.C.	Vidence				Disp	Disposition		
Commodity	Field Produc- tion	Refinery Produc- tion	Imports	Stock With- drawal (+) or Addi-	Unac- counted For Crude	Net Receipts	Crude	Refinery Inputs	Exports	Products Supplied	Ending Stocks
Crude Oil (including lease condensate)	€ 85,101	0	6,248	-28	-587	-20.371	5	63 594	4 790	1 050	04 455
Natural Gas Liquids and LRGs Liquefied Petroleum Gases Chre Products2	1,041 590 451	1,120 1,120 0	605 168 437	-305 -320 -5	•••	0 00		579 306	8 8 8 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	1,790	3,553 3,553
		•	ì	2	>	5	5	273	0	630	8
Other Liquids Other Hydrocarbons and Alcohol	8 8	00	665	2,361	• 0	133	o c	3,292	00	487	31,426
Motor Gasoline Blending Components		0	0	1,004	0	133	• •	1,646	0	-509	23.734
Aviation Gasoline Blending Components	> <	00	965	1,344	0	0	0	1,013	0	966	7,643
	>	5	5	2	0	٥	0	15	0	0	40
Finished Petroleum Products Finished Motor Gasoline	0	69,926	1,461	-1,690	٥	3,210	0	0	5,569	67.338	55.901
Finished Leaded Motor Gasoline	> (30,219	417	504	0	1,252	0	0	245	32.147	21,358
Finished Unleaded Motor Gasoline	> c	13,172	82 58	346	0	762	0	0	245	14,063	9,549
Finished Aviation Gasoline	o	7.04	999	158	φ.	490	0	0	0	18,084	11,809
Naphtha-Type Jet Fuel	o c	1 543	> 6	-72	0	0	0	0	0	259	267
Kerosene-Type Jet Fuel	o c	5,5	° 5	919	0	307	0	0	0	1,534	1,914
Kerosene	0	024,	\$ \$	90g	0	178	0	0	29	7,059	6,165
Distillate Fuel Oil	0	11,403	į.	1	5 6	Ö	٥ (0 ((8)	155	385
Residual Fuel Oil	0	8.775	838	1 267	.	400	5 6)	99,7	11,090	10,777
Special Nanhthas	0	556	0	-105	0	oce C	o c	5 C	2,135 6	7,126	8,403 725
Libricante	ο,	109	15	-16	٥	0	0	· c	- (101	20.5
Waxes	0 (954	on	86	0	2	0	0	. 62	412	1 223
Petroleum Coke	-	200	4	7	0	0	0	0	ဖ	8	72
Asphalt and Road Oil	> (2,935	0 !	-37	0	0	0	0	2,294	604	2.091
Still Gas	> C	2,357	5	346	0	0	0	0	-	2,715	1.651
Miscellaneous Products	> 0	9,409	0	0	0	0	0	0	0	3,469	G
	5	200	-	-16	0	-37	0	0	IO	153	251
Total	86,762	71,046	8,980	338	-587	-17.028	8	67.465	10.451	71 574	175 335
1 Theorem and the series of the series						1	ì	2016			2000

1 Unaccounted for crude oil is a balancing item.
2 Includes natural gasoline, isopentane, unfractionated stream, and plant condensate.
(s) Less than 500 barrels.
E = Estimated.
Note: Total may not equal sum of components due to independent rounding.
Sources and estimation procedures: See Explanatory Notes on Data Collection and Estimation.

Table 11. Production of Crude Oil (including Lease Condensate) by PAD District and State, for the Most Currently Available Month, 1 July 1983 (Thousand Barrels)

	- Total	i de
PAD District and State	Total	Daily Average
PAD District I	1,538	25
New York	E 71	2
Pennsylvania	н 364	£ 12
Virginia	4 6 4 6	€ €
West virginia	792	6
Adjustment C. Total PAD District I	E 2,545	82
	2,540	85
Indiana	434	4
Kansas	6,063	196
Kentucky	620	2 8
Michigan	E 17	3 —
Missour	543	18
North Dakota	4,247	137
Ohio	E 1,238	4 ;
Oklahoma	12,823	4- 6
South Dakota	3 6	9 6
Tennessee	250	° &
Adjustment 2	E 32 159	1.037
Total PAD District II		
PAD District III	Q Q	ŭ
AlabamaAlabama	1000 1000 1000 1000	: ជ
Arkansas	, , ,	}
Louisiana	E 37,453	1,208
Guil Chaise	2,835	5
Total Loveigna	E 40,288	1,300
Mississipoi	2,623	88
New Mexico	ç	ų.
Northwestern	436	18t
Southeastern	0//0	3 8
Total New Mexico	0070	101
18xas TBBC Petrict 01	2,087	29
TRRC District 02	3,445	11
TRAC District 03	E 10,842	25.2
TRRC District 04	786 786	5 K
District 05	3.536	114
THE DESIGN OF EXCUOING EAST LEADS	2,878	8
TODY District OTC	2,884	8
	19,350	624
TDBC District 08A	19,025	614
TRAC District 09	3,143	<u></u>
District	1,803	8
	4,289	8 !
Total Texas	E 76,413	2,465
Adjustment 2	7 7 7	1 7
Total PAD District III	= 128,371	<u> </u>
•		

₹	6,358	21,504 15	6,631	34,506 49	-24	87,402	E 268,048	arrels):
Arzona	California Central Coastal	East Central	South	Total California	Nevada Nevada Arizona, California, and Nevada2	Total PAD District V	United States Total	"(slement of the section of the sect

205 694 (s) 214 1,113

67 1,649 1,705

2,069 51,107 -327 52,849 20

Adjustment for Alaska² Total Alaska

South Alaska

PAD District V

North Slope

75 85 79 310 18 18 567

E 2,337 E 2,626 E 2,446 E 9,607 555 E 17,571

Total PAD District IV

Adjustment 2 Wyoming Montana ... Colorado. Utah ...

Average Oaiv

Total

PAD District and State

-Continued

PAD District IV

Production

2,819 8,647

> Includes the following offshore production (thousands California: Federal- 2,628, State- 3,067; Louisiana: Federal- E 25,111, State- 2,112: Texas: Federal- E 1,675, State- 226; U.S. Total- E 36,617.

 (s) Less than 500 barrels.
 Note: Total may not equal sum of components due to independent rounding.
 Sources: See Explanatory Notes on Data Collection and Estimation.
 E = Estimated. level sums of the State data with the independently estimated U.S. and Alaskan figures shown in the Summary Statistics portion of this issue and with the PADD level figures published in a previous issue. Final data at the State, PAD District and national levels will be published without adjustments in the Petroleum Supply Annual. These adjustments are used to reconcile the national and PADD

Table 12. Natural Gas Processing Plant Production of Petroleum Products by PAD District,¹ September 1983 (Thousand Barrels)

	ď	PAD District			٥	DAO OAG	=									İ	
Commodia	ı	Appala-		Annala		usin a					PAD Dis	District III		-	⊢	PAD	
Supplied to the supplied to th	Coast	chian #1	Total	chian	#	Wisc.	Okla., Karıs.	Total	Texas	Texas Gulf	S. F.	No. La.	New	Į į	Dist IV	Dist. V	United
Natural Gas Liquids				*		Daks	₩o.			Coast	Coast	Z.K	Mexico		M	Coast	Cialco
Natural Gasoline and Isonantana	462	380	842	8	1,886	445	6.629	8 962	19 897	3005	7 246	Ç.	i L				
Unfractionated Stream	a c	4 5	8 8	0	28	8	1,319	1,445	1.876	3.556	2.5	25 E	25,5	34,393 4.4.5	2,329	1,041	47,567
Plant Condensate	•	3 0	8 9	0	892	8	-1,828	8	10,824	-14,179	1 K	3 9	781	- 4	270	4 c	6 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5
Liquefied Petroleum Gases	413	900	73.0	-	₩,	\$	47	85	172	329	R	1,	, ^	2,0	1.0	e c	9 6
Process	142	157	299	> <	915 436	280	7,091	8,266	7,025	13,299	5,699	518	1,008	27,549	202	290	37.829
Rutana	豆	107	270	0	9 6	9	762.	1/28	805	3,059	2,005	<u></u>	2	5,981	5	0	8.024
Bitana Proposo Mist.	8	ଷ	118	0	} ~	3 8	4,020	. 4	2,407	3,672	1,812	140	445	8,476	443	344	12,678
Ethane-Propane Mixtures	0	0	0	0		3 =	, 5 «	- 4	6/8/5	2,079	689	214	38	4,593	237	202	6,324
Sobitane	0	0	0	0	· C	• •	7 7 43	9,4	7 0	42	0	O)	٥	5	0	8	139
***************************************	4	16	35	0	. 4	, <u>t</u>	? ?	5.	71,7	3,393	295	0	164	6,269	0	Ģ	8,012
Finished Petroleum Droduce					2	-	<u>†</u>	47.5	2/2	, 50,	200	124	2	2,127	9	Ę	2,652
Finished Motor Cooping	4	0	41	0	-	•	u	(1							
Firshed Leaded Mater Committee	4	0	4	0	- c	-	n	ه م	283	φ	0	S	ო	307	6	0	383
Finished Unicaded Motor Colors	52	0	25	0	•	2 0	> 0	-	0	0	0	0	0	0	^	0	48
Finished Aviation Cooperation	16	0	16	a	· c	o c	> 0	> (0 1	0	0	0	0	0	~	0	33
Naphtha-Type for East	0	0	0	0	0	0	-	⇒ •	9	0	0	0	0	0	0	0	16
Kerosene-Tyne let Euch	0	0	¢	0	0	¢	> 0	5 6	50	0	0	0	0	159	0	0	159
Kerosene	0	0	0	0	0	· c	0	> 0	0 (0	0	0	0	0	0	0	0
Distilate Fuel Oil	0	0	0	0		C	o c	5 6)	0	0	0	0	0	0	0	0
Special Naphthas	0	0	0	0	· c	> 0	0	-	-	0	0	•-	01	ო	0	0	e
Miscollopera Danking	0	0	٥	· c	, c	o c	0	-		0	0	0	0	,- -	0	0	-
wascendredus Products	0	0	0		•	> 0	-	0	97	۵	0	0	0	97	0	· c	- 20
Total Description			•	•	-	>	o	Ó	ဗ္ဗ	φ	0	4	-	. 47	N	• 0	5 5
	503	380	883	N	1,887	445	6 634	090	90		:					1	3
Production represents guarantity of section 1						2	5	000,0	20,130	5013	7,316	657	3,526 3	34,700	2,338	1,041	47,930
Comment of the state of the sta	Sproces	מפנים הכוני	1	1				ļ	į								

1 Production represents quantity of natural gas processing plant output less input to fractionating facilities. Source: See Explanatory Notes on Data Collection and Estimation.

Table 13. Refinery Input of Crude Oil and Petroleum Products by PAD District, September 1983 (Thousand Barrels, Except Where Noted)

		total CAC			ď	DAD Dietrict	=				PAD District III	#ict			PAD	PAD	
Commodity	East A	Appala- chian #1	Total	Appala- chian #2	Ind.,	Minn, Wisc., Daks.	Okla., Kans., Mo.	Total	Texas	Texas Gulf Coast	Gulf Coast	No. La., Ark	New Mexico	Total	Dist. IV Rocky Mt.	Dist. V West Coast	United States
Crude Oil (including lease condensate) 32,674		1,477	34,151	1,878	57,492	7,741	18,848	85,959	14,814	91,735	62,220	4,971	2,278	176,018 13,618	13,618	63,594	373,340
Natural Gas Liquids	ę	c	Ö	c	437	235	CRC	1 552	80	2 145	478	4	103	3.764	†	273	5.732
Natural Gasoline and Isopernane	Ŋ C	9 0	6 0	0	ì	30	} 0	0	0	0	0	0	0	0	0	0	0
Plant Condensate	0	0	0	0	50	0	თ	112	0	611	6	171	-	298	67	0	224
Liquefied Petroleum Gases	65	0	99	124	1,551	264	749	2,688	495	1,621	1,451	87	ဓ္က	3,684	320	900	7,093
Ethane	00	00	00	0 0	o 4	° %	00	87	- -	⊃ ო	9 S	00	0	8 8	⊃ æ	0	<u> </u>
Butane	φ.	0	00	, 1 2,	£,	1 월 '	375	1,381	159	1,248	\$ %	ဖ	۰,	2,017	206	<u> </u>	3,775
Butane-Propane Mixtures	0 0	00	00	0 0	nc	> c	- C	າເ	0	9 0	90	0	t 0	90	5 0	•	50
Etnane-Propane Mixtures	. R	0	B B	2	713	8	374	1,217	336	280	707	25	5 9	1,430	52	9	2,855
Other Liquids								ļ	;	;	4		•	Š	•	ê	101
Other Hydrocarbons and Alcohol	113 2,429	0 -128	113 2,301	o	88 4	-135	19 679	367 1,039	8 8 8	356 4,469	20,5	192	, <u>5</u>	5,578	-649	1,646	9,915
Motor Gasoline Blending Components (net)	-133	48	-115	φ	555	ន	1,131	1,703	450	1,492	1,035	8	-37	2,062	-10	1,013	4,653
Aviation Gasoline Blending Components (net)	1-	0	-1	0	4	0	-14	9-	0	N	46	0	0	48	0	15	46
Total Input to Refineries	35,170	1,367	36,537	2,042	66,939	8,128	22,301	93,410	16,200	102,441	65,952	5,489	2,478	192,560	13,491	67,465	403,463
Crude Oil Distillation	-	49	159	80	1 945	270	635	2.919	505	3,169	1,848	176	12	5,775	458	2,148	12,457
Operable Capacity (daily average)	1,473 75.3	174	1,647 70.4	96 103.4	2,351	295 91,5	79.0	3,515 83.0	611 82.7	3,902 81.2	2,532 73.0	295 59.6	107 7.1.7	7,447	559 81.9	3,109 69.1	16,278 76.5
Crude Oil Qualities Sulfur Content Weichted Average													;	;	i	;	\$
(percent) API Gravity, Weighted Average	31.31	.13	1.05 31.77	.81 35.76	.93 35.61	31.63	.57 37.49	.90 35.67	.65 37.29	.88 35.17	.93 33.59	1.39 31.57	39.59	34.74	35.24	7.00 25.85	33.16
Operable Capacity (daily average)	1,473	174	1,647	99	2,351	295	8	3,515	119	3,902	2,532	295	107	7,447	559	3,109	16,278
OperatingIdle	1,330	2 2 2	1,380 267	တ္က ဝ	2,170 181	0 0	119	300	38	359	264	9 89	20	730	ន្តន	223	1,543
				i													

1 Represents gross input divided by operable capacity. Note: Total may not equal sum of components due to independent rounding. Source: See Explanatory Notes on Data Collection and Estimation.

Table 14. Refinery Production of Petroleum Products by PAD District, September 1983 (Thousand Barrels)

Cocas		A	PAD District	-		A.	PAD District	=				0,000	111			9.5	1	
Coolet C	Commodity	ii.	Appala-		Appala-	-	Minn	Š			1000		Sirici			PAD	PAD	
1217 0 1217 35 1787 182 3455 240 36 12281 12281 12281 1261 146 154 154 146		Coast	chian #1		chia #2	, ⊼, , X	Wisc.	Kans.	Total	Texas	Sexas To C	ėj jį	No. La.	New	Total	Pist. IV	Dist. V West	United States
1,016 0 1,017 0 1,017 182 355 2,380 1,680 1,680 1,690	Liquefied Refinery Gases		, c		1 8						Coast	Coast				Mt	Coast	
Bit Decision Bit	For Petrochemical Feedstock Use		0	400	ရှင (197	182	355	2,360	223	2,774	2,907	62	95	6,061	154	1,120	10,912
1016 0 0 0 0 0 0 0 0 0	Ethane	817	0	817	38	1.590	182	3 5	240	9 6	1,293	929	9 9	٥	2,971	φ	172	3,777
10 0 0 0 0 0 0 0 0 0	For Petrochemical Feedshock Use		0 (0	0	0	0	0		è °	563		4 c	90	3,090	091	948	7,135
1016 0 1016 0 0 0 0 0 0 0 0 0	For Other Uses		> c	0 0	0 1	0	0	0	0	0	369	· «	c	o c	27.0	-	> c	25
	Propane	10.0	> c	2	۰;	0	0	0	0	0	194	ι α	• •) C	5 6	o c	2 0	2 5
State Stat	For Petrochemical Feedstock Use	3.0	> C	2 5 6 6	ဗ္ဗ	1,752	186	490	2,464	188	2,119	1,407	, 8	28 ¢	3.802	. g	758	2000
State Stat	For Other Uses	697	· c	269	၁ ဗွ	197	-	₹ 1	240	38	751	165	0	0	952	į 0	} £	1,670
1	Butane	201	, 0	5 5	3 C		186	447	2,224	152	1,368	1,242	8	28	2,850	, 85	599	6.550
120 0 120 0 120 0 31 4 136 148 1	For Other Line	8	0	8	•	, c	† c	ر ا	B01-	ee (7	1,489	8	17	1,558	٩	292	1,935
1, 10, 10 0 0 0 0 0 0 0 0 0	Butana Dropona Martin	120	0	120	0		7	2 2	> 5	> 2	9	1,459	92	0	1,643	0	Ð	1,737
1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,	For Detrophomiss Table 3	0	0	0	0	7	r c	2	001-	3	6/1-	R	14	17	-85 55	φ	279	198
1,135	For Other Less	0	0	0	0	· c	o c	> c	4 (N C	86	-	8	ଧ	123	-12	20	185
17.354 219 17.573 1.081 35.280 4.274 3.1326 53.901 8.342 46.405 31.623 1.507 1.030 88.907 6.804 1.11,445 74 11.219 567 21.162 2.056 5.396 23.901 8.342 46.405 31.623 1.507 1.030 88.907 6.804 1.11,445 74 11.219 567 21.162 2.056 5.896 23.901 8.342 46.405 31.623 1.507 1.030 88.907 6.804 1.11,445 74 11.219 567 21.162 2.056 5.896 23.901 8.342 46.405 31.620 7.03 1.030 88.907 6.804 1.11,445 74 11.219 567 21.162 2.056 5.896 23.901 8.342 46.405 31.620 7.03 1.030 88.907 5.896 2.380	Solutions for Dates Tall 15	٥	0	0	0	4	0	0	•	>	- ;	0	o	0	0	0	0	0
1.734 4. 219 17.573. 1081 35.280 4.274 13.286 53.891 8.342 46.405 31.823 1.007 0 8.907 6804 1.1146 74 11.219 6.354 5141418 2.218 7.430 24.280 4.324 19.381 12.103 7.03 610 37.121 4.224 11.1145 74 11.219 6.354 514 14.118 2.218 7.430 24.280 7.324 19.381 12.103 7.03 610 37.121 4.224 11.1145 74 11.1219 6.354 514 14.118 2.218 7.430 24.280 2.324 19.381 12.103 703 610 37.121 4.224 19.280 11.007 9.30 6.31 12.103 703 610 37.121 4.224 19.284 431 7.242 1.043 32.894 731 7.241 13.23 49.394 731 7.242 1.043 72.8 81 12.2 1.043 72.8 81 12.2 1.043 72.8 81 12.2 1.043 72.8 81 12.2 1.043 72.8 81 12.2 1.043 72.8 81 12.2 1.043 72.8 81 12.2 1.043 72.8 81 12.2 1.043 72.8 81 12.2 1.043 72.8 81 12.2 1.043 72.8 81 12.2 1.242 1.	Finished Motor Canalina	0	0	0	0		· c	o c	4 0	N C			7	8	123	-12	2	185
6,209 145 6,324 514 14,119 2,718 7,430 24,234 14,119 2,718 7,430 24,234 15,1103 1,100 189,907 6,804 11,145 74 1,121 6,208 14,121 2,218 2,206 5,386 28,621 4,018 27,024 1,520 0,00 0 0 0 0 0 2,580 1,107 0	Finished Leaded Mater County	17,354	219	17,573	1,081	35.280	4.274	13.266	20 62	٠,	٠. ز	0	0		L(T)	φ		ī
11,145	Finished Talesdad Mater Control	6,209	145	6,354	514	14.118	27	7 430	200	.	46,405	31,623	1,507		88,907	6,804		97,404
352 46 398 94 378 83 32 478 426 51,786 2580 23 478 83 95 478	Finished Aviation Gasotine	11,145	74	11,219	567	21,162	2.056	2,436	20,400		19,381	12,103	203		37,121	4,224		85,151
352 46 398 94 378 85 325 862 681 1,623 492 192 402 274 363 1,97 9 48 1,97 684 6,81 1,623 49 192 402 2,747 363 7,439 43 7,870 478 12,138 1,757 5,589 19,682 6,142 6,188 5 1,422 14,150 685 2,379 41 2,420 80 159 0 1826 635 7,619 249 27,619 249 27,619 249 27,619 249 27,619 249 27,619 249 27,619 249 27,619 249 27,619 249 27,619 249 27,619 249 27,619 249 27,619 249 27,619 249 26 249 258 2,528 258 2,528 258 2,528 258 2,538 2,538 2,619 2,619 <td< td=""><td>Naphtha-Type Jet Filel</td><td>- ;</td><td>0</td><td>-</td><td>0</td><td>83</td><td>0</td><td>6</td><td>9</td><td></td><td>470, V</td><td>070.5</td><td>80.0</td><td></td><td>51,786</td><td>2,580</td><td>17,047</td><td>12,253</td></td<>	Naphtha-Type Jet Filel	- ;	0	-	0	83	0	6	9		470, V	070.5	80.0		51,786	2,580	17,047	12,253
1,107 0 1,107 3 2,668 428 418 3,517 604 1,102 442 2,747 363 7,439 431 7,870 436 418 4,102 1,043 35 442 1,415 668 7,439 431 7,870 436 1,520 80 1,520 1,526 3,628 3,628 3,628 3,628 3,628 3,628 3,628 3,628 3,628 2,528 2,528 2,548 2,847 47 1,4150 6,68 3,68 <t< td=""><td>Kerosene-Type Jet Filel</td><td>205</td><td>46</td><td>398</td><td>95</td><td>378</td><td>82</td><td>325</td><td>9 6</td><td></td><td>3 5</td><td>7 5</td><td>⊃ {</td><td></td><td>360</td><td>ន</td><td></td><td>807</td></t<>	Kerosene-Type Jet Filel	205	46	398	95	378	82	325	9 6		3 5	7 5	⊃ {		360	ន		807
29 19 48 100 390 51 164 705 36 1,021 30 25 164 705 36 1,021 30 3 <th< td=""><td>Kerosene</td><td>1,107</td><td>0</td><td>1,107</td><td>ო</td><td>2,668</td><td>428</td><td>418</td><td>3 517</td><td></td><td>20,0</td><td>9 4</td><td>79Z</td><td></td><td>2,747</td><td>963</td><td></td><td>5,933</td></th<>	Kerosene	1,107	0	1,107	ო	2,668	428	418	3 517		20,0	9 4	79Z		2,747	963		5,933
7,433 431 7,870 478 12,138 1,757 5,589 19,962 3,002 1,742 1,743 4,743 4,431 7,870 41 1,743 4,437 1,743 1,743 4,437 1,743 1,744 1,74	Distillate Fuel Oil	3 5	<u>e</u>	4	8	330	Ŋ	16	705		40,0	0 0	n e		14,150	88		26,879
1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,	Residual Fuel Oil	9,430	431	7,870	478	12,138	1,757	5,589	19.962		22.0	10,01	2 4		2,75	۳ <u>ر</u>		3,513
528 0 796 0 86 882 535 2,58 256 87 0 1,102 340 4 28 32 0 159 0 1 160 216 477 2,653 87 0 7,106 3405 330 366 696 0 422 0 258 64 478 2,053 0 7,016 0 7,016 0 7,016 0 7,016 0 7,016 0 7,016 0 7,016 0 7,016 0 7,016 0 7,016 0 7,016 0 7,016 0 7,016 0 7,016 0 7,016 0 7,016 0 7,016 0 7,016 0 0 7,016 0 7,016 0 7,016 0 0 7,016 0 7,016 0 7,016 0 0 0 0 7,016 0 0 0 0	Naphtha < 400 Deg. For Petro. Feed 11se	9,00	4 0	2,420	8	1,300	176	270	1.826		7.610	2,472	, 6 5 6		20,000	629		81,744
4 28 32 0 159 0 160 216 4,747 2,053 0 7,016 0 330 366 696 0 478 20 852 60 164 0 1,096 3 1,213 22 95 0 29 680 2,178 80 2,656 2,238 60 1,096 3 1,213 21 2,232 278 642 3,173 298 2,656 2,238 64 0 1,096 3 3,038 0 1,212 1,57 465 1,844 62 1,262 1,419 56 1,419 56 1,419 56 1,419 56 1,419 56 1,419 56 1,419 56 1,419 56 1,419 56 1,419 56 1,419 56 1,419 56 1,419 56 1,419 56 1,419 56 1,419 56 1,419	Other Oils > 400 Deg. For Petro, Feed, Use	א מ	> c	2 2 2 3 1	0 (962	0	96	882		2,528	֓֞֝֞֝֞֝֞֝֟֝֓֓֓֓֓֞֝֟֝֓֓֓֓֓֞֝֓֓֓֓֞֝֓֓֓֓֞֝֞֓֓֡֓֞֝֞֡֓֓֡֝֞֡֓֓֡֝֞֡֓֓֡֝֡֡֝֡֓֡֓֡֝֡֡֝֡֡֡֝֡	ğ a		790,0	υ υ		24,448
330 366 696 696 0 422 0 268 680 2 1,788 800 331 0 2,921 21 1,113 21 2,232 278 642 3,173 298 2,656 2,238 64 11 2,267 2,799 135 3,038 0 3,038 150 2,853 818 4 4112 631 1,114 2 1	Special Naphthas	. 4	⊃ g	ဂ င္ပ	0 0	129	0	-	160		4,747	2,053	5 0	0	7,016	> C		7,7,0
23 72 95 0	Lubricants	330	i i	2 2	> 6	314	0	164	478		852	9	164	_	1,00	9 6		0,0
1,213 0 1,213 21 2,222 78 642 3,173 296 2,656 2,238 64 0 2,355 10 6,3 6,4 60 1,2 6,2 6,4 6,5 1,3 6,4 6,5 1,3 6,4 6,5 1,3 6,4 6,5 1,3 6,4 6,5 1,3 6,4 6,5 1,3 6,4 6,5 1,3 6,4 6,5 1,3 6,4 6,5 1,3 6,4 6,5 1,3 6,4 6,5 1,3 6,4 6,5 1,3 6,4 6,5 1,3 6,4 6,5 1,3 6,4 6,5 1,3 6,4 6,5 1,3 6,4 6,5 1,3 6,4 6,5 1,3 6,4 6,5 1,3 6,4 6,4 6,4 6,4 6,4 6,4 6,4 6,4 6,4 6,4	Waxes	3 8	3 2	9 4	> c	422	0	258	980		1,788	800	33		500	, 2		1,1
462 0 1,513 27 27 27 27 27 27 29 24 2 3,173 299 2,656 2,238 64 11 5,267 297 297 297 203	Petroleum Coke	23	1 0	2 6	۶ -	j) (0	2	စ္တ		10	33	54		7.5	, ç		7/0,4
751 0 751 21 1,010 122 157 465 1,844 62 1,262 1,419 56 0 2,799 135 3,038 0 3,038 150 2,653 818 171 1,329 236 1,324 819 8 11 2,468 162 1,718 2,939 967 95 4,804 833 14,25 29 1,747 57 2,965 266 726 4,004 448 4,182 2,459 203 43 7,985 529 0 1,425 29 1,444 57 2,965 266 726 4,004 448 4,182 2,459 203 43 7,395 496 177 40 217 3 94 18 45 160 70 819 374 51 0 1,314 30 0 10 10 10 10 10 10 10 10 10 10 10 10	Marketable	462	o c	, c	v <	7,737	278	642	3,173		2,656	2.238	2		26.7	200		10 440
3,038 0 3,038 150 2,653 818 491 4,112 631 718 2,393 967 95 4,804 833 162 293 1,747 57 2,967 2,66 4,006 454 4,182 2,393 967 95 4,804 833 150 2,965 2,66 7,26 4,006 4,48 4,182 2,459 2,03 43 7,385 5,29 1,777 40 2,17 3 94 18 55 170 70 819 374 51 0 1,314 30 177 27 2,04 3 94 18 4,182 1,00 815 1,246 1,00 1 1,314 30 1,317 27 2,04 3 94 18 4,180 10 10 10 10 10 10 10 10 10 10 10 10 10	Catalyst	751	· c	754	, ,	7 6	2	465	1,844		1,262	1,419	20	_	2,799	13.5		7,000,7
1,718 29 1,747 57 2,595 216 4,006 454 4,735 2,550 203 43 7,985 529 529 0 293 0	Aspnait and Road Oil	3,038	• 0	3038	, ř	010,1	2 5	177	1,329		1,394	819	00		2,468	163		מפע מפע
293 0 293 0 7, 2307 250 726 4,006 454 4,735 2,550 203 43 7,985 529 1,425 29 1,454 57 2,965 256 726 4,006 454 4,735 2,550 203 43 7,985 529 2,425 29 1,454 57 2,965 256 726 4,004 448 4,182 2,459 203 43 7,336 496 33 177 40 217 3 94 18 55 170 70 819 374 51 0 1,314 30 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Sulf Gas	1,718	, ¢	1 747	3 6	2,003	2 0	491	4,112		718	2,393	296		4.804	5 83		15.144
1,425 29 1,454 57 2,965 256 726 4,004 448 4,182 2,459 203 43 7,335 496 33 177 40 217 3 94 18 25 170 70 819 374 51 0 1,314 30 177 27 204 3 94 18 45 160 70 815 125 51 0 1,314 30 36.715 1,291 38,006 2,103 63,670 8,323 22,840 96,936 15,922 106,283 68,516 5,561 2,511 198,793 13,723 7 -1,545 76 -1,469 -61 -2,731 -195 -539 -3,526 278 -3,842 -2,564 -72 -33 -6,233 -232 -1100,000 1.000	For Petrochemical Feedstock Use	293	C	5	5 <	500	ę,	126	4,006		4,735	2,550	203		7.985	200		7.75
177 40 137 31 31 31 31 31 31 31 31 31 31 31 31 31	For Other Uses	1.425	2	454	<u>.</u>	N 100	<u>و</u>	0	۲۷		553	9	0		, 0,50	3 8		007,7
177 27 204 3 94 18 55 170 70 819 374 51 0 1,314 30 0 13 13 2 20 0 10 10 10 0 10 10 10 10 10 10 10 10 1	Miscellaneous Products	171	9	. 6	ò	505,	90.	726	4,00,4		4,182	2.459	203	43	7 335	3 5		707
36,715 1,291 38,006 2,103 63,670 8,323 22,840 96,936 15,922 106,283 68,516 5,561 2,511 198,783 13,723 -1,545 76 -1,469 -61 -2,731 -195 -539 -3,526 278 -3,842 -2,564 -72 -33 -6,233 -232 input and cultrant	Fuel Use	. 0	<u> </u>	<u>- c</u>	nc	¥ .	<u>α</u>	32	170		819	374	5.	} C	200,1	1 0 €		15,749
36,715 1,291 38,006 2,103 63,670 8,323 22,840 96,936 15,922 106,283 68,516 5,561 2,511 198,793 13,723 -1,545 76 -1,469 -61 -2,731 -195 -539 -3,526 278 -3,842 -2,564 -72 -33 -6,233 -232 input and cultinate.	Non-Fuel Use	, <u>1</u>	<u> </u>	2 5) (; د	0	2	욘		4	249	; =) c	֓֞֝֝֞֝֓֞֝֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֡֓֓֓֓֓֓֓֡֓֓֓֡	} •		56
36,715 1,291 38,006 2,103 63,670 8,323 22,840 96,936 15,922 106,283 68,516 5,561 2,511 198,793 13,723 -1,545 76 -1,469 -61 -2,731 -195 -539 -3,526 278 -3,842 -2,564 -72 -33 -6,233 -232 input and outbut	:	:	ŭ	402	n	94	8	45	160	2	815	125	, <u>r</u> 2) O	30.1	- ģ		304
-1,545 76 -1,469 -61 -2,731 -195 -539 -3,526 278 -3,842 -2,564 -72 -33 -6,233 -232 input and outbut	***************************************	36,715						22.840										120,1
-1,345 /6 -1,469 -61 -2,731 -195 -539 -3,526 278 -3,842 -2,564 -72 -33 -6,233 -232 input and outbut		1744		!))				38,516						418,504
262- 00-00-00-00-00-00-00-00-00-00-00-00-00		ر د د	ø	1,469		-2,731	-195	-539	-3,526	278		-2 564	-72		0000			;
	1 Represents the arithmetic difference between in	nnut and	Author of							i		1	j Ī		0,220			-15,041

¹ Represents the arithmetic difference between input and output. Note: See Explanatory Note on negative production. Source: See Explanatory Notes on Data Collection and Estimation.

Table 15. Percent Refinery Yield of Petroleum Products by PAD District, 'September 1983

	í		-		ă	DAD Dietrict	=	-			PAD District	trict III			PAD	PAD	
	ī	USUICI				2	1			10000	°-		-	Ī	≥ #30	Dist. V	United
Commodity	East	East chian	Fotal	Appala- chian	ll lad. Ky.	Wisc.	Kans,	Total	Texas	Gulf		No. La., Ark.	New Mexico	Total	Rocky	West	States
		#		7#		Daxs.	WIC.			10000	10000						
	9	*	Q.	£ 05	55.7	49.3	53.7	54.6	48.0	41.8	45.3	22.9	39.1	42.9	48.4	42.9	46.2
	4 4.0	n c) (3	}	2	,	-	•	Ŋ	Ψ.	o.	Q.	κį	ςį	ιú	κi
Finished Aviation Gasoline3		> c	9 0	9 9		, 6	; œ	27	5	50	4.6	5	4.0	3.3	 	1.7	2.8
Liquefied Refinery Gases	0.0	, c	, .	<u> </u>	- r-	† *-		9	4.5	Ξ	۲.	3.7	16.9	.	28	24	1.5
Naphtha-Type Jet Fuel	3 5	t c	- 6	,	. 4	נב		4.0	4.6	7.1	10.6	٠.	κύ	7.8	5.3	11.4	7.0
Kerosene-Type Jet Fuel	ų,	•	? 7	i i) 	} ^	α	α.	ς,	٠ <u>٠</u>	1.7	φ	<u>ر.</u> دن	4.	O,	ωį	oj.
Kerosene	-: °	4. 6	- 6	4 6	- 00	. 6	, K	6 6	20	2.0	19.9	29.9	31.4	21.4	28.0	17.5	21.3
Distilate Fuel Oil	, , ,	بار بار	0.0	0 C	500	3 0	, t	2	4.2	7.9	4	5.6	5.0	6.1	2.7	13.5	6.4
Residual Fuel Oil	ò	3 0	9 6	4 0	1 -	9 0	4	0	6	5.6	4	1.7	0	6.1	0	κį	1.2
Naphtha < 400 Deg. F. Petro. Feed. Use	oj c	5 C	ηc	0	r of	· C	, c	ς,	4.	9.4	3.3	0	0	3.9	ó	φ	2.0
Other Oils > 400 Deg. F. Petro. Feed. Use		2	· ÷	s د	ų u	· c	e cc	i rc	•	o,	-	3.2	0	œί	Ó	બ	4.
Special Naphthas		į	-, q	0 0	j 1~	o C	i di	i ed	; Q	6,	ر .	6.4	0	1.6	ď	ιć	1.2
Lubricants	,	- 6	9 0	o c		· C		q	Ą	۳.	۲.	1,2	0	Ξ.	Τ.	τ.	۳.
Waxes	-: t	9 0	ć ć	> -	, 0	, t	er er	3.6	20	2.8	3.6	7.	ιŲ	5.0	23	4.5	4
Petroleum Coke		> 0	9 0	- 6) (C	10.8	2 6	4.7	4.2	7	3.8	18.7	4.0	5.6	6.4	3.6	4.0
Asphalt and Road Oil	, c	3 5	9 0	9 0	, r	7	3.7	46	30	6,4	4.1	3.9	1.8	4.4	4.	5.3	4.6
Still Gas	d, Li	- c	ģŒ	90	٥,	N	(r)	κi	rú	o.	ø.	0.	0	7	ωį	ωį	κi
Miscellaneous Products	ú	2.0	?	1	ļ	!										;	1
Processing Gain(-) or Loss(+)4	4.4	5.6	9	-3.2	4,	-2.6	-2.8	¥.	1.8	4	4	4,1	4,1-	6. 4.	-1.8	-5.5	-3.9

1 Based on crude oil input and net reruns of unfinished oils.
 2 Based on total finished motor gasoline output plus net output of motor gasoline blending components, minus input of natural gas plant liquids, other hydrocarbons and alcohol.
 3 Based on finished aviation gasoline output plus net output of aviation gasoline blending components.
 4 Represents the difference between Input and Production.
 Note: Totals may not equal sum of components due to independent rounding.
 Note: See Explanatory Note on negative production.
 Source: See Explanatory Notes on Data Collection and Estimation.

Table 16. Imports of Crude Oil and Petroleum Products by PAD District, September 1983 (Thousand Barrels)

Commodity			Petroleum Administration for Defense Districts	on for Defense Districts		
			=			
Crude Oil (including lease condensate) 1 2	93 667		=	≥	>	Total
Natural Gas Liquids	664,12	24,575	67,158	1.182		
Natural Gasoline and Isopentane	418	4,127	7.6		0,248	126,619
Plant Condensate	0 ;	•	***	395	605	6
Liquened Petroleum Gases	2 5	0) c	o ;	437	518'c
Property	4 0	4,127	374	7,	0	F -
Potano	34.7	1,431	0	145	168	5344
Bitana Dravas M.A.	118	912	• 0	0 94	0	1.431
Fither Drospo Literatures	2 €	625	0	00 t	20	1,345
Saltitude Mixibles	> C	C	374	p c	117	1,035
Other Liquids 1	•	7. 20.	0) O	0 0	374
Unfinished Oils 1	4,452	103			0	1,159
Motor Gasoline Blending Components	4,132	3 6	4,165	91	933	
Aviation Gasoline Biending Components	319	100	4,009	91	9 =	9,876
	0	? ~	<u>8</u>	0	9	929'8
Finished Petroleum Products		ı	5	0	3	1,241
Finished Motor Gasoline	33,935	604	7,053		•	>
Finished Leaded Motor Gasoline	7,306	E	4,004	149	1.461	
Finished Unleaded Motor Gasoline	4,494	. R	4-7	54	417	40,217
Finished Aviation Gasoline	2,812	; cc	3 :	54	æ	4,554
Naphtha-Type Jet Fuel	-	0	4, «	0	386	ror.e.
Kerosene-Type Jet Fuel	0	0	> 0	D	200	5,463
Bonded Aircraft Fuel	267	0	178	o ·	0	c
Other	0	0	2	0	95	9 1
Kerosene	2967	0	0 000	0	; C	/£ 7 ,
Distillate Fuel Oil	300	1	9/1	0	20	O
Bonded Ships Bunkers	6,464	175	(s)	0	(8)	/27/
Other	0		846	8	T.	5
Residual Fuel Oil	6,464	3,5	D	0	5 -	7,599
Bonded Ships Blinkars	17,868	000	846	8) t	0
Other	0	9 0	1,663	31		7,599
Naphtha < 400 Den for Petro Eggal 11-	17,868	0,00	0	0	3	20,698
Other Oils > 400 Dea for Data Fig. 1	85	5	1,663	31	000	0
Special Nanhthas	0	ν σ	23	0	000	20,698
Lubricants	128	o ç	0	0	0	42
Waxes	202	3 °	269	0	, T	•
Asphalt and Road Oil	7		8	(s)	2 0	97.2
Miscellaneous Products	377	٠, ١	N '	o	, 7	248
***************************************	292	- 4	0 1	0		4 !
Total Imports		•	xo	(s)	! ; =	361
******	66,260	29.809	204.74			0 5
			(4)			

Cude oil and unfinished oils are reported by the PAD District in which they are to be processed; all other products are reported by the PAD District of entry.
 Includes crude oil imported for storage in the Strategic Petroleum Reserve.
 Less than 500 barrels.
 Note: Total may not equal sum of components due to independent rounding. Sources: See Explanatory Notes on Data Collection and Estimation.

Table 17. Imports of Crude Oil and Petroleum Products by Source and PAD District, September 1983 (Thousand Barrels)

											ľ	Ì		
Source	Grude 0≅11	ье	Unfin- ished Oils	Gasoline Blending Compo- nents	Finished Motor Gasoline	Jet Fuel	Kero- sene	Distil. Fuel Oil	Resid. Fuel Oil	Special Naphthas	Other Prod- ucts 2	Total Prod- ucts	Total Petro- leum	Total (Daily Average)
							All PAD	All PAD Districts						
Arab OPEC	0.455	c	335	c	c	-	c	687	1 927	c	c	2 949	12 404	413
Augena	77.	.	3 6	· c	o c	0		} •		0	ю.	0		8
Kiwait		0	8	•	0	0	0	0	52,	0	0	815	815	27
Oatar	0	0	0	0	O	0	O	0	0	0	2		C)	(s)
Arabia	16,657	0	0	319	0	o	Q	0	029	0	(s)	626	17,596	287
United Arab Emirates	352	0	0	0	0 (0 (0 (0 [0 6	0 0	292		2 8	5
Subtotal Arab OPEC	27,235	0	623	319	O	0	0	8	3,069	•	7. 7. 7. 7. 7.	4,998	32,233	1,074
Other OPEC							•		!		ı			;
Ecuador	1,472	0	0 1	00	0	0	0 0	0 0	186 C	0 0	00	86.	1,658	KS 8
Gabon	2,984		0 0	5 C	2,00	⊃ ģ	5 C	> <	373	o c	737	1 070	7, 200 4, 200 7, 4, 4, 4, 4, 4, 4, 4, 4, 4, 4, 4, 4, 4,	ب ئا ش
Indonesia	2,403	> C	> C) C	2	g =	0	0	ò	0	} ~	2	2,583	98
Nicoria	200,5) C	•	0	0	0	0	0	^	0	0	7	9.714	324
Venezuela	7.345	0	0	0	1,445	215	0	2,041	2,925	181	0	6,807	14,152	472
Subtotal Other OPEC	38,495	0	0	0	1,686	243	0	2,041	3,491	181	437	8,079	46,574	1,552
Other		,	•	•	1	((c	ţ	ć	ć	į	4	i C
Angola	2,888	0	٥	0	0	-	>	•	Š,	> '	>	è	G,140	cni
Australia	0	0	0	0	0 (0 8	Φ (ם מ	0 5	0 0	3 9	N S	2 5	- 6,
Ваћатаѕ	ο.	0	Z,25,		ָּיָ	3	> 0	0,0	9 5	2	•	000	1,103	S W
Brazil	0	Đ.	0 8	1	1,456	9 0	> ç	9 C	\$ 6 5 6	٠ ټ	200	00.4	15,694	2 62
Canada	8,130	4, 86, 50, c	<u> </u>		6 0 0	,	<u>e</u> c	2 0	344	50	200	4 4	1.192	9 4
Congo	ę r	> C		o c	•	o C	•	0		0	0	0	-	: (s)
Egypt	- c	0	0	. 0	0	. 0	0	0	. 0	0	(s)	(s)	(s)	<u></u>
Tibera	0	0	0	0	0	0	0	٥	200	0	•	200	500	'
Malaysia	0	0	0	O	123	다		0	C4 ·	0	0	137	137	S.
Mexico	23,288	374	208	0	488	176	<u>(8</u>	88 1	₽	CV I	<u>~</u>	1,672	24,960	832
Netherlands	0	Ø.	• :	98	679	0	0	5/3	- t	ဂ္ဂ ဇ	<u> </u>	785,1	205.	4 f
Netherlands Antilles	0	0 (2,331	0 (150	0 0	5 6	200	, , , ,	0 6	200	000,	055.0	4 6
Norway	234	0 0	> 6	> c	0 0	> c	> C	> C	o c	c	oc	o c	3947	132
Oman	7,847	> C	5 0	786	o c	9 0	c	· C		0	0	786	786	98
People's Hepublic of China	5 C	> C	o c	9 =	o C	0	0	0	523	0	0	523	523	4
Prierto Bico	0	0	83	0	204	0	282	0	0	128	158	1,00,1	1,00,	33
Нопаліа ·····	٥	٥	0	٥	467	0	0	274	0	0 1	0 (740	740	52
Spain	0	0	Ω (0	0	0	00	<u>ج</u> د	3	5) t	ያ ሂ	\$ £	v 6
Trinidad and Tobago	2,209	o į	-	-	- 5	-	> c	<u>n</u> c	(6)	9 0	- 64	502	14 165	472
United Kingdom	13,562	707	→	> 6	550	0 0	> c	o u	2 567	5	? =	22.4	0 235	i e
Virgin Islands	0	۰ ۵	2,469	5	2,223	-	> C	200	200	2 C	o c	, ,	476	16
Zaire	476	>	>	>	>	•	•	•	>	•	S	•	:	?
Uner western Hamisphere	0	0	0	0	0	0	0	0	1,008	33	0	1,039	1,039	2 5
Other Fastern Hemisphere	3.227	o	136	O	510	553	0	77.	1,440	47	io :	3,509	6,736	225
Subtotal Other	688'09	5,344	8,006	921	6,879	994	301	4,872	14,138	296	886	42,935	103,825	3,451
Total Imports	126,619	5,344	8,636	1,241	8,564	1,237	301	7,599	20,698	776	1,617	56,012	182,632	6,088
-														

See footnotes at end of table.

Table 17. Imports of Crude Oil and Petroleum Products by Source and PAD District, September 1983 (continued)

Cut Cut	Col. Col.	9	Crude	 	Unfin	Gasoline	Finished	<u>-</u>		1	, income					
2,781 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	2,781 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	3	ğ	9 	oiis Oiis	Compo- nents	Motor Gasoline	Jet Fuel	Kero-	g Fuel is	S. Fuel	Special Naphthas	Other Prod- ucts 2	Total Prod- ucts	Total Petro- feum	Total (Daily Average)
2,181 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	2,5871 0 0 0 0 0 0 0 0 0								PADO	istrict 1						
2.857 0 0 294 719 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	2.882		2,781	0	0	c	•	,)							
1,557 1,597 1,597 1,597 1,592 1,593 1,594 1,59	3,465		0000	0 (294	. 0	0	0	> 0	687	1,582	0 6	0	2,269	5,050	1 68
1,553	3.465		. C	o c	00	319	0	0	0	• 0	9 0	> c		28 28 28 28	294	앝
1,553	1.553	•	5,674	0 0	294	9 9	00	0	0	0	• •	3 0	600	96.5	3,212	107
1,553	1.537			•	1	n n	>	Ö	0	687	1,582	0	38	3,174	8,848	295
1,533	3.465		C	c	c	•										
1,553	1,528		3,465	, 0	> 0	- 0	o c	00	00	0 (186	0	0	186	186	ď
1,525	1,553	***************************************		0	0	• •	0	> c	90	0 0	0	0	0	0	3,465	
1,553	1,553	***************************************	8	0	0	0	0	0	> C	> c	0 (0 (0	0		<u>(</u>
1,553	1.553 0 0 069 0 0 1,445 215 0 1,569 3,109 0 0 6,347 18,728 18,728 1,569 2,109 0 0 1,802 18,00		2,621	00	0 (0	1,445	215	0	1,569	2 60	00	0	0	834	. 28
1,553 0 0 0 0 0 0 0 0 0	1,553 0 0 0 0 0 0 0 0 0		1	•	>	D.	1,445	215	0	1,569	3,108	0	00	6,337	8,772 13,258	292 442
1,355 0 669 0 0 0 0 0 0 0 0 0	1,503 0 669 0 0 1,207 1,503 0 0 0 1,507 1,810		1													
888 227 0 0 659 0 0 1,207 0 0 0 0 0 0 1,509 1,50	Section Sect	***************************************	1,553	0 (0	0	0	0	0	_	750	ć	•			
888 227 0 0 1207 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	888 227 0 0 1207 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		-	0 (629	0	0	83	• 0	387	202	> (0	52	1,810	8
2.82	2,822		000	0 10	0	0	1,207	0	0	; c	8 6	o c	o (1,802	1,802	90
2.822 (a) (b) (c) (c) (c) (d) (d) (d) (d) (d) (d) (d) (d) (d) (d	2,822 (a) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		8	ì	0 (0	277	0	17	475	355	۸ د	<u>و</u>	1,699	1,699	27
2.822	2.882		۰ ۱	> c	0 (0 (0	0	0	0	344	- c	3	20.0	2,456	8
2,822 0 (8) 0 287 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	2.822 (8) (9) (9) (9) (9) (9) (9) (9) (9) (9) (9		0	> C	> c	00	0 (0	0	0	0	o 0	o c	å 4 ⊂	344	Ξ,
2822 0 (9) 0 0 287 0 0 0 287 (9) 0 0 0 200 200 200 200 200 200 0 0 273 (9) 0 0 0 273 (9) 0 0 0 273 (9) 0 0 0 273 (9) 0 0 0 273 (9) 0 0 0 273 (9) 0 0 0 274 (1,274 1,274	2,822 0 0 0 287 0 0 0 287 0 0 0 22 0 289 3,491 0 0 0 2 2 0 2 0 2 0 0 0 0 0 0 0 0 0 0		0	0	0 0	- C	5 (0 (0	0	0	0		· (S	- (5)	<u>@</u> @
1, 274 1	Color Colo		2,822	0	0	>	000 000	0 0	0 (0	200	0	0	, 202,	500	(A)
1,274 1,27	0 0 2,331 0 150 0 21 4,168 0 0 1274 1,274<		0	(s)		0	679	> c	5 C	88	(s)	0	0	699	3,491	116
572 0 0 213 4,168 0 283 7,147 7,147 0	572 0 0 213 4,166 0 283 7,147 7,147 0	tilles	0	•	2,331	0 0	n (2	> <	5	573	0	ដ	0	1.274	1.274	5 54
	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		572	0	0	-	200	> c	-	213	4,168	0	283	7,147	7.147	7 8
0 0 0 230 0 204 0 282 0 0 523 0 0 70 158 944 944 0445 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 230 0 0 467 0 0 282 0 0 523 0 0 523 523 523 6 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	***************************************	0	0	0) C	0 0	o c	- •	D (0	0	0	0	572	2
1,537 1,538 1,53	0 0 0 0 0 467 0 274 0 70 158 944 944 445 0 0 0 0 467 0 0 274 0 0 740 740 445 0 0 0 0 0 0 0 0 0 0 740 740 8,021 107 0 0 0 133 0 0 0 279 (\$) 229 4 259 697 0 0 0 133 0 0 0 0 0 0 721 1374 (\$) 29 40 208 1,008 14,861 334 3,639 0 5,861 752 300 4,209 13,178 128 694 29,294 44,155 1, 27,455 334 4,132 319 7,306 967 300 6,464 17,868 128 986 38,805 66,261 2, 771 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1,638 1,638 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	***************************************	0	0	230	0	5 20	> <	<u>ء</u> د	0	523	0	0	523	523	4:
- 445	8,021 107 0 0 0 0 0 0 0 0 0 219 (\$) 29 0 0 740 740 740 8,021 107 0 0 618 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		0	0	0	0	467	> c	9 0) <u>, , , , , , , , , , , , , , , , , , ,</u>	٥ (9	158	944	944	8
445 0 0 0 0 0 0 133 0 0 219 (s) 29 0 64 64 64 64 64 64 17,868 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	445 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		0	0	0	0	0		o c	, 1 c	÷ ;	0 (0	740	740	53
8,021 107 0 0 133 0 0 2,223 0 40 604 8,625 697 67 67 67 67 67 67 67 67 67 67 67 67 67	8,021 107 0 0 133 0 0 0 222 697 0 0 0 0 224 499 0 721 1,374 (s) 8,8 889 86,25 14,861 334 4,132 319 7,306 967 300 6,464 17,868 128 986 38,805 66,261 2, 7,373 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	nago	445	0	0	0	0	0	· c	210	\$ @	5 6	o ·	2	2	cu
- 27,455 334 4,132 319 7,306 967 300 6,464 17,868 128 986 38,805 66,261 2, - 27,456 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	14,861 334 3,639 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		8,021	107	0	0	133	0	· c	<u>,</u>	333	8 4	₹ (252	697	ន
14,861 334 3,839 0 5,861 752 300 4,209 13,178 (s) (s) 2,826 3,387 1,1857 (s) (s) 2,284 44,155 1,1857 (s) 2,861 7,306 967 300 6,464 17,868 128 986 38,805 66,261 2,1858 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	559 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	***************************************	>	0	618	0	2,223	٥	0	965	3.566	> c	3 c	504	8,625	287
559 0 0 0 234 499 0 721 1,374 (s) (s) 2,826 3,387 1,008 1,00	559 0 0 0 234 499 0 721 1,374 (s) (s) 2,828 3,397 14,861 334 4,132 319 7,306 967 300 6,464 17,868 128 986 38,805 66,261 2 1,537 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		c	c	c	ć	,				<u> </u>)		5/5,	5/5,	246
14,861 334 3,639 0 5,861 752 300 4,209 13,178 128 694 29,294 44,155 1 27,455 334 4,132 319 7,306 967 300 6,464 17,868 128 986 38,805 66,261 2 PAD District II 1,537 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	14,861 334 3,839 0 5,861 752 300 4,209 13,178 128 694 29,294 44,155 1 27,455 334 4,132 319 7,306 967 300 6,464 17,869 128 986 38,805 66,261 2 PAD District II 1,537 0 0 0 0 0 0 0 0 0 0 0 0 1,537 1,638 0 0 0 0 1,537 3,946 0 0 0 0 0 0 0 1,537 3,946	lemisphere	559	0	o c	> c	2	٥ ;	ο :	0	1,008	0	٥	1.008	1 008	õ
27,455 334 4,132 319 7,306 967 300 6,464 17,868 128 694 29,294 44,155 1 PAD District II 1,537 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	27,456 334 4,132 319 7,306 967 300 6,464 17,868 128 694 29,294 44,155 1 PAID District II 1,537 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	***************************************	14,861	334	3,839	o C	7 20	4 F	۵ <u>د</u>	727	1,374	(s)		2,828	3,387	13
27,455 334 4,132 319 7,306 967 300 6,464 17,868 128 986 38,805 66,261 2 PAD District II 1,537 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	27,456 334 4,132 319 7,306 967 300 6,464 17,869 128 986 38,805 66,261 2 PAID District II 1,537 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		. !		•	٠		40.	ST.	4,ZUS	13,178	1 28		29,294	44,155	1,472
1,537 0 0 0 0 0 0 0 0 0 0 1,537 1,1538 0 0 0 0 0 0 0 0 0 1,537 1,638 0 0 0 0 0 0 0 0 0 0 0 1,538 3,946 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1,537 0 0 0 0 0 0 0 0 0 0 1,537 11 771 0 0 0 0 0 0 0 0 0 0 1,537 1,638 0 0 0 0 0 0 0 1,537 3,946 0 0 0 0 0 0 0 1,538	***************************************	27,455	334	4,132	319	7,306	296	300	6,464	17,868	128		38.805	66 261	00000
1,537 0 0 0 0 0 0 0 0 0 1,537 1,1538 0 0 0 0 0 0 0 0 0 1,537 1,1538 0 0 0 0 0 0 0 0 0 0 0 0 0 1,537 1,1538 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1,537 0 0 0 0 0 0 0 0 0 0 1,537 1,638 0 0 0 0 0 0 0 0 1,537 3,946 0 0 0 0 0 0 0 0 0 1,638	l											- {		27122	503,2
1,537 0 0 0 0 0 0 0 0 1,537 771 0 0 0 0 0 0 0 0 0 1,537 1,1538 0 0 0 0 0 0 0 0 0 0 0 1,537 3,746 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1,537 0 0 0 0 0 0 0 0 0 1,537 771 0 0 0 0 0 0 0 0 0 0 0 1,537 1,638 0 0 0 0 0 0 0 0 0 0 0 0 771 3,946 0 0 0 0 0 0 0 0 0 0 0 0 0 3,946	J			,			j	PAD Distr	ict						
771 0 0 0 0 0 0 0 0 1,537 1,538 0 0 0 0 0 0 0 0 0 0 0 771 3,946 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	771 0 0 0 0 0 0 0 0 1,537 1,538 0 0 0 0 0 0 0 0 0 0 0 0 771 3,946 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1,538		1,537	0	c	c	. <	,	•							
	1,638 0 0 0 0 0 0 0 0 777 3,946 0 0 0 0 0 0 0 0 0 0 0 1,638		E	0) C	> <	> c	> c	0	0	0	0	0	0	1.537	ŗ
3,946 0 0 0 0 0 0 0 0 0 0 0 1,638	3,946 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		1,638	0) O	>		> c	o c	00	0	0 0	0	0	1.	5 %
	6,446	PEC	3,946	0	0	0	0	, o	, o	o	> 0	> 0	0 0	0 (1,638	55

Table 17. Imports of Crude Oil and Petroleum Products by Source and PAD District, September 1983 (Thousand Barrels)

(continued)									2					
Source	Crude Oil 1	LPG	Unfin- ished Oils	Gasoline Blending Compo- nents	Finished Motor Gasoline	Jet Fuel	Kero- sene	Distil. Fuel	Resid. Fuel Oil	Special Naphthas	Other Prod- ucts 2	Total Prod- ucts	Total Petro- leum	Total (Daily Average)
						i	PAD D	PAD District II						
l de la companya de l							İ							
Other OPEC	376	0	0	0	0	0	0	0	0	0	0	o	376	13
Indonesia	1,933	0	0	0	0	0	0	0	00	00	0 0	0	1,933	3 7
Iran	925	0 0	0 0	0 0	0 0	9 6	-	-	5 C	5 C	o c	> C	2 2 2 4	3 6
Nigeria Venezuela	1,104 260	0	0	00	00	00	0		00	0	00	0	260	<u>.</u>
Subtotal Other OPEC	4,899	0	0	0	0	0	0	0	0	0	0	0	4,899	<u> </u>
Other	·	¢	Ş	•	c	c		c	c	c	•	194	194	œ
Bahamas Canada	5.907	4.127	209	5	ع د ع	00	~	175	299	88	. C	5,040	10,947	365
Congo	848	0	0	0	0	0 1		0 (0 (00		0	848 848	82
France	0 !	0	0 0	0 0	0 0	0 0		0 0	00	> C	ح (<u>آ</u>	ē	(3)	(s) 145
Mexico	8 8 8	90	0	0	.	00	00	0	0	0	0	0	357	27
Oman	1,52	0	0	0	0	٥		0	0	0	0	0	1,521	<u>क</u>
Trinidad and Tobago	838	0	0	0	0	۰,		0 (0	0 0			838	8 8
United Kingdom	2 2 2 3	0	0 0	0 0	-	90		> c	-	9 6	<u> </u>	<u> </u>	2 8 2 8	\$ 27
Other Eastern Hemisphere Subtotal Other	15,730	4,127	403	5	35			175	299	88	19	5,234	20,964	669
	Č	1011	5	00+	2	•	V-	175	299	89	19	5,234	29,809	994
Total Imports	C4.0/3	,	3	2	2	,					!			
	į						PAD C	PAD District III						
Arab OPEC	5 497	•	335		0	•		0	345	0	0		5,817	1
Aigena Kuwait	2 0	00	30		• 0			0	521	0 (0 (521	521	17
Oatar	0 0	00	00	0 0	00	00	00	00	920	-	N 0		12,746	(a)
Saudi Arabia	25,120				•	, 0		0	0	0	0		352	12
Subtotal Arab OPEC	332 17,615	o 0	335		0			0	1,486	0	0	1,824	19,439	648
Other OPEC														47
Ecuador	1,095	0	0 (0				00	0 6	o c	00	1,095 2,984	33
Gabon	2,984	0 0	0 6		> C	, (0	0			3,166	90
Indonesia	1,657	0	0		O				0	0	0 (1,657	£ 5
.50	7,768	Φ	0		٥				,	0 ;	06		6///)	62
Venezuela	3,909	00	00	00	00	00		472 472	4 C	181	00	88	21,243	208
Suppose Other Orley	\$ 10,04	•	•											
Other	1.335	٥	0		0	Ū			0	0	0	0 (1,335	1,
Australia	0	0	0		0 (ָרָ מַנְיַ		3 C		213	- 6
Bahamas	0 0	0 0	398		52°	, ,			90	90	0	ī	529	D
Canada	(S)	0	8	0	6		0	00	00	00	9	8	90 (¥	ი 2
France	0	0	0		0			.	•	>	Ē.	e		2
See footnotes at end of table.		<u> </u>												

Table 17. Imports of Crude Oil and Petroleum Products by Source and PAD District, September 1983 (Chousand Barrels)

Source	Orde Oil 1		Unfin- ished Oils	Gasoline Blending Compo-	Finished Motor	F. F.	Kero-	Distii. Fuel	Resid.	Special	Other	Total	Total	Total
				nents	dasoune		2	ō	ō	Naphthas	ucts 2	Prod- ucts	Petro- leum	(Daily Average)
							PAD D	PAD District III						(afin
Other												j		
Netherlands	16,11	374	208	0	000	1	į							
Norway	1 385	0	0	38	30	9 0	છ જ	67	14	ĘZ	^	ogo	1	
Oman		o c	0 0	0	0	0	- c	00	0 (73	(S)	901	060,71	570
People's Republic of China		> 0	⊃ ⊂	۽ ۵	0	0	0	> c	٥ ه	٥	0	0	1,385	4 4
Tuesto Fico		0	o c	Š c	0 (0	0	• •	> c	0 (0	0	2,426	₽ &
United Kingdom		0	• 0	9 0	-	0	0	0	9 0	29 C	00	22 2	120	. 4
Virgin Islands	4,518	0 (0	0	0	-	0 0	0	0	90	7	8 \$	58	2
Zaire	476	⊃ c	1,851	0	0	0	> c	0 6	0	0	0	ţ	940 7.540	i i
Other Western	•	>	0	0	0	0	0 0	⇒ c	, c	£	0	1,862	7,867	
Other Eastern House	0	0	0	c	•	•		•	•	0	0	0	476	9 6
Subtotal Other	1,786	٥	136	0	254	0 0	0 0	0	0	æ	c	č	à	
	\$0£'07	374	3,674	156	714	176) (g	, 0	0	47	8,	475	2 250	-
Total Imports	67,158	374	000	į		•	C	4/5	166	414	72	6.119	35,083	ر د و
•	.	;	600'+	8	714	176	(s)	846	1,663	595	7.	ć		3
				 						} 	ŧ	909'8	75,764	2,525
							PAD District IV	ıİct 1∨						
Other Canada Subtotal Other	1,182	341	6	0	2		 							
	1,182	8	6	0	8	0	00	38	ਲ ਨ	0	55	939	1.818	ä
iotal Imports	1,182	341	9	o	ĭ	(,	3	-	0	53	929	1,818	9 6
				,	\$	>	0	8	31	0	83	636	1,818	59
							PAD District	> to						
Other OPEC														
Venezia	5,841	0	0	c	240	į								
Subtotal Other OPEC	255	٥ (0	0	1 0	8 C	0 0	0 0	373	0	437	1.079	6.010	Š
	200	>	0	0	240.	78°	0	- c	37.0	0		0	255	3
Other)	0	>	437	1,079	7,174	239
Malaysia	153	168	0	0	æ		3							
Mexico	⇒ c	0 0	0 (0	. £3		(a)	0 0	ഗ	15		230	383	ç
Netherlands Antilles	٥) c	-	0 (0	0	0	·-	v c	0 0		137	137	2 40
People's Republic of China	٥	0	- C	0 0	0 (0	0	٥	380	- c		ខ	æ	-
Subtotal Other	0	0	. 0	3 -	> ç	0 ;	0	0	0	o c		88 188	389	ဌာ
Capacian Cured	153	168	0	992	4 5	¥ %	0	20	8	0	1,	208	99 e8	81
Total Imports	6,248	168	c	200	;			ñ	<u>\$</u>	5		1,653	1,805	` &
1 Indiados a la la la la la la la la la la la la l			.	000	417	94	(s)	51	838	Ť.	403			
Includes aviation dasoline wayes sected	for storage	C 3	egic Petrok	the Strategic Petroleum Reserve.							J	۲,/عا	8,980	536

1 Includes crude oil imported for storage in the Strategic Petroleum Reserve.
2 Includes aviation gasoline, waxes, asphalt, lubricants, natural gasoline, isopentane, plant condensate, naphthas less than 400 degrees F, other oils greater than 400 degrees F and miscellaneous products.
(s) Less than 500 barrels or less than 500 barrels per day.
Note: Totals may not equal sum of components due to independent rounding.
Sources. See Explanatory Notes on Data Collection and Estimation.

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Table 18. Exports Of Crude Oil And Petroleum Products By PAD District, September 1983 (Thousand Barrels)

· silve mana C		Petrolet	Petroleum Administration for Defense Districts	on for Defense	Districts	
Commodity	~	И	Ш	٨١	>	Total
Crude Oil (including lease condensate) 1	0	525	0	0	4,790	5,315
Jiquefied Petroleum GasesFihane	147	1,692	858	+- €	85	2,589
Propare	127	689 989	408	ි ග	3.0	1,260
Butane December 15 the second	<u>ф</u>	1,003	05% (%)	 (25	1,329
Finished Motor Gasoline	→	<u>\$</u>) (8)) (s)	245	o ¥14
Naphtha-Type Jet Fuel	(s)	0	0	0	0	<u>(8)</u>
Kerosene-Type Jet Fuel	(s)	0	240	0	53	270
Kerosene	,	4	9	0	<u>(s)</u>	5
Distillate Fuel Oil	127	0	203	0	768	1,097
Residual Fuel Oil	<u>(s)</u>	0	1,877	0	2,155	4,032
Naphtha < 400 Deg. for Petrochem. Feedstock	37	œ	118	8	s	171
Other Oils > 400 Deg. for Petrochem. Feedstock	<u>(s)</u>	96	523	0		591
special Naphthas	370		સ	0		403
ubricants	100	10	376	-	99	555
Maxes	9	<u>(s)</u>	54	0	9	35
Petroleum Coke	365	175	2,164	o	2,294	4,998
sphalt	7	<u>s</u>	<u>(s)</u>	₩.	•	თ
Miscellaneous Products	5	©	32	0	5	26
Total Product Exports	1,171	2,130	6,249	ιΩ	5,661	15,216
Total Exports	1,171	2,656	6,249	ĸ	10,451	20,531

Exports of crude oil are prohibited by law. However, some crude oil is exchanged with Canada on a barrel for barrel basis, and crude oil is shipped to U.S. Territories (especially Puerto Rico and the Virgin Islands) to be refined there. The Statistical Tracking Systems count these exchanges and shipments as imports and exports.
 Less than 500 barrels.
 Note: Total may not equal sum of components due to independent rounding. Sources: See Explanatory Notes on Data Collection and Estimation.

Table 19. Exports of Crude Oil and Petroleum Products by Destination, September 1983 (Thousand Barrels)

(s) (s) (s) (s) (s) (s) (s) (s) (s) (s)	Destination	Crude	 	Finished	Jet	Dist.	Residual	Coocin			Potto				
		ō	D CPG	Gasoline	Fuel	9 Ö	o Te	Naphthas	cants	Waxes	en l	Asphalt	Other	Total	Total (Daily
1	Argentina	0	0	c	•	c	'				cox0				Averago)
(a) (b) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c	•	00	0	0		0	-	<u> </u>	۰ ،	® :	0			00	(8)
\$\begin{array}{c c c c c c c c c c c c c c c c c c c		0	4 0		<u>@</u>		384		- ~		22,5			225	7
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\$\$\text{\$\	1 1	0 0	00		0		0		n o		503			510	, L
(a) (b) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c		525	1,706		00		0 02.0			00	-0			F &	<u> </u>
(a) (b) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c	1	0 ((8)		0		9 C		57		599		85	3.472	(8)
(a) (b) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c		- c	0 (0		671	£ 2	* Ç	@ @	<u>s</u>	(S)		00	S
(a) (b) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c	: :	0	9 ^		0 0		0		<u>-</u>	•	Ø (8			683	ន
(a) (b) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c		0	0		> 0		0 (4	**		0		۰ ۵	% %	- 1
(a) (b) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c	•	0 (8		0		0 0	> c	(Ø.	0	0	10	ţ	- (g)
(a) (b) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c	:	> c	g °		0		0	0	" ←	<u> </u>	0 0	0 (29	24
(a) (b) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c	İ	0	າເ		0 0		0	٥			> C	0 0	Ø (6	ო
(a) (b) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c	*******************************	0	0		> c		0 (0			0	0	9 (9	ທເ	<u>ن</u> و
(a) (b) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c	İ	0	(s)		0		> c				0	0	<u>(8</u>	9	() (s
(8) (8) (9) (9) (9) (9) (9) (9) (9) (9) (9) (9	1	0 (0 1		0		0		- 8	N C	174	0		181	9
(e) (e) (e) (f) (e) (f) (e) (f) (f) (f) (f) (f) (f) (f) (f) (f) (f		-	D (0		٥	0	્ હ	-	0 0	0 (0	<u>&</u>	· ②
(a) (b) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c		0	۷ 8		0 (0	0	<u></u>	0	0 0	> c	0 0	<u>s</u>	(S)
(a) 1 (b) 1 (c) (c) (c) (c) (c) (c) (c) (c) (c) (c)	***************************************	0			ə c		0 0	0	m	0	0	_	-	ω t	<u>s</u>
(a) (b) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c	Jug	0			0		o c		o, (0			2 2	V
(a) (b) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c		0 (<u>(</u>		φ		0	_	N 8	ତ ହ	φ,			, m	Œ
(s) (s) (s) (s) (s) (s) (s) (s) (s) (s)		-	0 (0	8	0	_	3 0	<u> </u>	0 0	0 (Ξ	41	-
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(e) (e) (e) (e) (e) (e) (e) (e) (e) (e)	***************************************	٥			> <		0 6	0	(S)		623	0	13	7.57	(S)
(s) (b) (c) (c) (c) (d) (e) (e) (e) (e) (e) (e) (e) (e) (e) (e	***************************************	0			0		o c		© :		0	0	<u>8</u>) (9)	8
(a) (b) (c) (c) (c) (c) (d) (d) (e) (e) (e) (e) (e) (e) (e) (e) (e) (e		0			0		633		(S)		0	0	<u> </u>	ន	£
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(s) (s) (s) (s) (s) (s) (s) (s) (s) (s)) c			0	<u>@</u>	0	0	1 64	0	3 0	> c	m,	252	17
0 398 5 29 0 0 12 151 4 18 0 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1		0			0 0		0		-	0	• •	- c		ო •	<u>(s)</u>
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0 (s) 1 0 0 0 275 143 3 (s) 6 625 830 (s) 1 1 0 0 0 371 205 143 3 (s) 1165 830 (s) 165 830	***************************************	0	398		- g	0	0 0		<u>s</u>	0	0		(S)		2
(s) (s) (s) (s) 213 143 3 (s) 303 (s) 165 830 (s) 165	1111111111	0	-		} c		o u		151	4	\$		φ :		5
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$\begin{array}{cccccccccccccccccccccccccccccccccccc$)	-		0		0	8		£ 20	2	_ (- (თ
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0 34 0 0 190 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	***************************************	0	· <u>e</u>		> c		0 0	۰	(s)	0	0	0	- c	4, (5)	
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		ɔ	y		0		0	· 20	: 27	n c	% <	<u>(</u>	172	253	60
	See footnotes at end of table.									•	•	>	Φ	ß	CV

Table 19. Exports of Crude Oil and Petroleum Products by Destination, September 1983 (Thousand Barrels)

(continued)														
			Finished		Dist.	Residual	Checial			Petro-				Total
Destination	Oude 1	1.PG	Motor Gasoline	Fue	o Fuel	eg io	Naphthas	cants	Waxes	Soke Coke	Asphalt	Other		(Daily Average)
Singapore	G	3	0	0	0	125	4	4	(s)	0	(s)	(s)	135	ı,
Spain	0	0	0	0	203	0	0	60	(s)	833	0	65	808	30
Simpam		0	0	0	0	O	(S)	(s)	0	5	0	(s)	16	γ
Sweden	0	0	0	0	0	0	222	7	(s)	0	(s)	(s)	554	7
Switzerland	0	0	0	0	0	0	0	(S)	(S)	<u>s</u>	0	(s)	-	(s)
Thailand	0	0	0	0	0	0	0		(s)	0	0	-	2	(s)
Traided and Tobado	0	0	0	0	0	0	(s)	Ø	<u>(S</u>	0	0	(s)	ev.	(s)
Tirkev	0	0	0	0	(s)	0	0	0	0	0	0	0	(s)	<u>(s)</u>
Inited Arah Emirates	0	(8)	0	0		0	0	æ	0	28	0	-	99	Q
Linited Kingdom	0	, D	0	0	0	٥	0	ιΩ	(s)	11	(\$)	ន	1	ιO
I S.S.B.	0	0	0			0	0	0	0	0	0	4	4	(8)
	0	0	0	0		0	0		0	0	O	<u></u>	-	(g)
Veneziela	0	(S)	0			0	ო	গ্ৰ	<u>(S</u>	88	0	-	94	m
Virgin Islands	3.089		٥			719	0	<u>(S</u>	0	0	0	(s)	3,809	127
West Germany		N	0				0	ო	_	254	(s)	F	270	o
Vinoslavia		٥	٥				0	(s)	0	8	0	0	84	ო
Other	552	118	٥		0	0	(s)	45	છ	7	(s)	35	720	52
Total	5,315	2,589	411		***	-	403	555	32	4,998	G	823	20,531	684

Exports of crude oil are prohibited by law. However, some crude oil is exchanged with Canada on a barrel for barrel basis, and crude oil is shipped to U.S. Territories (especially Puerto Rico and the Virgin Islands) to be refined there. The Statistical Tracking Systems count these exchanges and shipments as imports and exports. Less than 500 barrels or less than 500 barrels per day.

(s) Less than 500 barrels or less than 500 barrels per day. Note: Total may not equal sum of components due to independent rounding. Source: See Explanatory Notes on Data Collection and Estimation.

Table 20. Stocks of Crude Oil and Petroleum Products By PAD District, September 1983 (Thousand Barrels)

Commodity		PAD District I) A	PAD District												
Aironingo	Coast	Appa- lachi-	Total	Appa- lachi-	ind., II., Ky.	Minn., Wisc.,	Okła, Kans,	Total	Texas	Texas	La Gulf	Z	New		PAD Dist. IV	PAD Dist.	United	Ī
Crude Oil (incl. lease condensate)	ļ ļ			1		Carks.	Wo.		mand	Coast	Coast	Ark.	Mexico	rota	Rocky Mt.	West	States	
reimery		1	14,788	ı	ا			:								CON		1
Leases	1	ļ		ļ	1	l	J	13,827	ł	1	J	ŧ	1	48 187	6	9		
Strategic Petroleum Reservet			<u>6</u>	1.	ļ	1	11	1,586	1-1	1 1	1	l	١	96,090	9,654	31,871	100,972 200,169	
Total Total	,11	1 1	0 15.858	11:	1-1	11	11	00	1.1			1-1	1-1	17,286 361,000	1,317	1,657	21,905	
Total Carella				l	t	1	1	76,956	1	1	1	1	1 1	0 522,543	0 12,821	28,587 84,455	28,587	
Refinery	130 61		į															
Bulk Terminal	44,367 -	2,797	45,764 126 158	1,141	38,842	6,204	14,005	60,192	9,961	83,961	47 744	700	,	:				
Natural Gas Processing Plant	18	1	27.745		r i	1 1	!	94,926 33,576	1 1	1	Į.	ţ.	ا ت 4	147,484 92,093	9,513 2,443	61,048 25,426	324,001	
Total	<u>†</u>	3	257 199,924	o 	192	4 5	1,351	1,583	1,954	1,276	750	75	170	40,102	2,395	4,246	108,064	
Natural Gasoline and Isopentane							l	130,277	1	ı	1	1		283,904	14,531	90,880	6,405 779,516	
Bulk Terminal	16	0	16	C	33	ć	ç	į										
Pipeline	J	ł	2		,) 	<u>8</u>	202	131	352	<u>\$</u>	-	15	592		œ.	C	
Natural Gas Processing Plant	က 	6	0 5	1	1	1	ı	329	1.1	11	1 1	1	ł	3,175	- য	00	4.265 265	
O. C. C. C. C. C. C. C. C. C. C. C. C. C.	I	1	95	,	<u>?</u>	٤	- 149	178	328	179	162	52	- 	250 20 20	2 %	ល ភ្	940	
Unfractionated Stream Bulk Terminal				٠				2	ļ	ı	i	ı	I	5,081	65	<u> </u>	7,008	
Pipeline	ı	1	0	ŀ	1	ļ	1	9 947										
Natural Gas Processing Plant	 		00	1	ı	1	1	118		1 1	1	ı	1	1,784	0	0	4.001	
lotal	1	,	'n	ه ا	1 6	C 1	757	856	263	936	Ę		<u> </u>	2,519	92 5	0	3,103	
Plant Condensate							ŀ	3,191	1	1	1.	1	: 	5,624	497	00	2,211 9,315	
rennery Pipeline	0	0	0	0	9	0	٨	a	c	;							!	
Natural Gas Processing Plant	0	0	00	, 	1	, ,	1	0	n 	3 3	o 	9	0	151	0	0	159	
1012	ı	1	0	-	- !	;; ;;	ო 	۲ ۱	3	16	10	80	0	2 29	οñ	00	204	
Liquefied Petroleum Gases								<u>0</u>	ı	1	1	1	t	420	រ ក	0	420	
neullety Bulk Terminal	609	6	618	452	1,706	46	635	2,860	276	4 556	2,402	8						
Pipeline Natural Gas Processing Plant	1 ,		2,889	1.1	11	: 	11			·	5,40	ج ا	l B	7,297 8,184		587	11,692	
Total	١	ਲ 	218 5,864	。 1	74	5 2	Ŋ	5.45	1,089	145	467	1 8	33	3,065	3 8		12,036	
See foothotes at end of table							35	5,502	,	1	ı			0,417		3,514 1·	2,860 18,851	

Table 20. Stocks of Crude Oil and Petroleum Products By PAD District, September 1983 (Thousand Barrels) (continued)

See footnotes at end of table.

Table 20. Stocks of Crude Oil and Petroleum Products By PAD District, September 1983 (Thousand Barrels) (continued)

		PAD District	1		18	PAD District											
Commodity	East	Appa-	Total	Appa-	ind.	Minn,	OKIB ,			Texas	.≌ 1—	tict ⊞			PAD Dist IV	PAD Dist	
lashutana	Codist	an #1		an #2	μ. ζζ.	Wisc. Daks	Kans.	Total	Inland	Gulf	Coast	No. La. Ark	New Mexico	Total	Pocky M*	West	United States
	•															Coast	
Bulk Terminal	ь !	0	0	111	163	6	113	406	135	657	7.00	ì	ı				
Pipeline Alexand Care Day	١	1	0 0	1 .	1	!	ļ	1,931	1	3 1	9 - 1	<u>=</u> 1	_	1,518	47	73	2,044
Total	-	0	· (0	4	21	1 5	25 25 25 25	1	1	;	1	1	9 6	00	45 C	7,262
Other Hydrocarbons and Alcohol		i	מ	1	ŀ	1	1	2,845	}	?	‡	o 	ro J	171 6.969	~ Q	e 5	8
Refinery	163	c	5	ć	,	1									?	2	10,081
	ł	ŀ	<u>ছ</u>	,	<u> </u>	-	0	<u> </u>	•	88	8	0	0	133	c	ø	307
Unfinished Oils Potenti								į	l	ļ	ļ	ı	I	133 133	0	0	397
Naphthas and Lighter	9	4	1														
Kerosene and Lighter Gas Oils	2,402	187	3,647	\$ €	2,34	500	874	3,466	926	8.925	5.733	72.	6	1	į		
Heavy Gas Oils Residuum	6,631	273	6,904	120	2,194 4,205	304	463	2,660	757	7,390	1,473	8	9	15,745 9,656	529 490	4,862 3.546	28,249 18,785
Total	2,395	1 28	2,681 15,665	2 5	2,820	ø	1,257	4,088	3 5	4,933	3,313	98 8		20,470	923	9,871	44,007
Motor Gasoline Blending Components		:	3	2	596,11	516	3,804	16,053	2,949	33,22e	17,800	288	175	54,718	2,475	5,455 23,734	21,604 112,645
Refinery Bulk Tomacol	5,221	100	5,321	4	4 892	7.25		,	,								<u> </u>
Pipeline		11	98 0	1		}	26.	7,161 253	509,	8,370	7,066	5 I	172	17,353	1,580	7,337	38,752
i otal	1	I	5,407	l (H	H	1.1	55 7.469	1.1	1	1	ı	l	8 8	-0	900	1,151 81
Aviation Gasoline Blending Components								}		ļ	ŀ	ł	ļ	17,884	1,581	7,643	39,984
neimery Total	۲ ا	0	1 1	0	78	0	42	120	0	Ç	148	c	ć	į			
in the state of th		ļ	•	ı	l	1	ı	120	1	!	}	•	ء ا	158	00	6 é	325
Refinery	040 4	č		į											1	}	626
Bulk Terminal	4 1	, I	39.178	<u>*</u>	6,042	1,537	2,972	10,635	2,133	8,235	4,774	961	182	5 985	1 798	7644	
ng Plant	?		13,902	J	!	11		32,205 15,402	1 1	1 1	1-1	1		11,855	,	1,680	41,589 96,321
Total	3	-	24 58,691	o 	0	0	0	0 0	O	0	о І	o 	- 	19,245 0	1,148 14	2,034	51,731
Finished Leaded Motor Gasoline) 	20,242	1	1	I	1	1	47,085		21,358 1	96 679,681
Refinery Bulk Terminal	2,354	130	2,484	55	2,726	743	1.540	2067	9	i							
Pipeline Pipeline	1 1	1 1	19,824	ŀ	1	2	•	15,562	? : 1	3,835	1,929 —	33e 33e	114	7,384			19,129
Natural Gas Processing Plant Total	12	0	2 22	0	0	0	- 	8,264	1	,	,	1	1 1	9,797	743	5,429 936	48,003 27,456
	ı	1	30,036	1	ł			28,890	.	-	5	0	۰ ا				88
See footnotes at end of table.													1			9,549	94,610

See footnotes at end of table.

Table 20. Stocks of Crude Oil and Petroleum Products By PAD District, September 1983 (Thousand Barrels) (continued)

PAD	Ust United V West States Coast	4,460 22,460 6,251 48,318 1,098 24,275 0 16 11,809 95,069	245 1,104 322 1,300 0 79 0 60 567 2,543	974 4,022 555 1,488 385 1,295 1,914 6,805	3,247 11,918 2,097 12,557 821 10,510 6,165 34,985	319 3,687 65 4,740 1 764 0 3 385 9,194	5,137 44,355 4,646 83,44 994 26,948 0 1 10,777 154,748	6,416 20,173 1,981 29,511 6 7 8,403 49,691
PAD	Dist. IV Rocky Mt.	725 522 405 4 1,656	31 6 0 37	233 4 80 317	348 252 114 714	4 9 0 0 0 0 0	1,554 607 524 0 2,685	474 0 0 474
	Total	8,601 5,548 9,448 0 23,597	644 111 21 60 836	1,935 123 506 2,564	5,760 1,772 4,086 11,618	1,982 870 420 3 3,275	18,320 7,121 9,217 1 34,659	7,903 5,919 13,823
	New Mexico	89 1 1		174	, I I	<u>6</u>	187	4
strict III	No. La., Ark.	325		147	 6	92 1	958	1 1 79
PAD District III	La. Gulf No. La. Coast Ark.	2,845	1 I I	432	2,278	99	4,648 0	2,741
	Texas Gulf Coast	4,400	394	876	3,168	1,140	11,534	4,667
	Texas	88111	, l l d	308	88	 65 0	993 1	272
_	Total	5,571 16,643 7,138 0 29,352	152 443 58 0 653	667 538 159 1,364	1,311 4,264 1,936 7,511	920 1,021 158 0 2,099	11,364 18,558 9,199 0 39,121	1,973 1,489 0 3,462
	Okla., Kans., Mo.	1,432	1 1 1	E 111	88	888	2,858	8 1 1
PAD District II	Minn., Wisc., Daks.	26 <u>7</u> 0	1 1	1 1	76	1 1 12 0	1,476	1.11
PA	Ind., III., Ky.	3,316	2 1 0	41	1,107	472	6,937	1,621
	Appa- lachi- an #2	1 3	0 0	111	6	1	8 I I I	*
	Total	3,103 19,354 6,186 12 28,655	32 418 0 0 450	213 268 165 646	1,252 4,172 3,553 8,977	462 2,758 185 0 3,405	7,980 52,512 7,014 0 67,506	3,407 20,122 0 23,529
PAD District (Appa- lachi- an #1	85 1		ا ۱۱ ا نق	111	<u>1</u> 0	908	8
PA	East Coast	3,018	% ° °	111	1,252	387	1.677	දු.
	Commodity	Finished Unleaded Motor Gasoline Refinery Bulk Terminal Pipeline Natural Gas Processing Plant Total	Finished Aviation Gasoline Refinery	Naphtha-Type Jet Fuel Refinery Bulk Terminal Pipeline Total	Kerosene-Type Jet Fuel Refinery	Kerosene Refinery — Bulk Terminal Prpetine — Natural Gas Processing Plant	Distillate Fuel Oils Refinery Bulk Terminal Pipeline	Residual Fuel Oils Refinery

See footnotes at end of table.

Table 20. Stocks of Crude Oll and Petroleum Products By PAD District, September 1983 (Thousand Barrels) (continued)

		PAD District I	-		ď	PAD District II	=								ļ		
Alipomino	East	Appa-		Appa-		Mion	25.0				PAD District III	strict III			PAD	PAD	
	Coast	an #1	Total	lachi- an #2	. ¥ ¥	Wisc. Daks.	Kans.	Total	Texas	Gulf	La. Gulf	No. La.	New	Total	Dist. 1∨	c olst	United
Naphtha < 400 Deg. Petro. Feedstock Referen										_			MCNCO.		¥,	Coast	
Total	9.9	00	9.3	00	150	0	25	202	148	873	480 C	7	c				
Other Offs > 400 Deg. Petro, Feedstock			•	•	200	0	52	202	148	873	480	3.5	00	1,572	00	261	2,066
Total	99	00	90 00	00	8 8	0	0	23	311	1.145	60+	•	•				
Special Naphthas		•	•	•	9	0	0	32	311	1,145	192	0	00	1,648	44	474	2,157
Bulk Terminal	× 1	- 59	8 9	0	4	0	159	300	7	÷	Ċ	ě,					i
Total	0	0	30	0	0	0	1	250	,	<u>.</u> 1	8 1	9	o 	1,390 90 90	о С	279 48	2,061
Lubricants	i	I	689	t	ł	ł	· 	250	-	1	0	o 	о 	110) C (t)	327	3,165
Bulk Terminal	1,030	914	1,944	٥	635	c	730	ć	,	,							
Total	1 1	! !	3,009	1 (1		5	1,024	<u>.</u>	2,957	1,043	487	0	4,506	47	536	7,932
Waxes				l	ŀ	l	1	1,923	I	ł	1		ŧ	241	25 S	1,223	3,022
Total	5	<u>5</u> l	155 75	0	43	٥	30	23	8	232	110	â	•	;			
Petroleum Coke			2	!	l	1	ı	22	ł	1	<u>?</u>	3 1	5	4 4 4 4 4	00	ሟ ዄ	746 746
Total	917	0 0	917	0 (522	72	129	723	4	â	74.0	Ş	•				
io pec		.	;	>	222	72	129	723	4	8 2	73	152	0	951 951	4 8 8 8	2,091	4,830
Hetiney Bulk Terminal	1,558	4	1,602	266	2.180	1.388	200	0101	į								
Total	1	!	2,717	1	1	<u> </u>		4,3/2 2,545	955 1	- 233 		676	163	3,359	527	1,474	11,334
Miscellaneous Products			2	†	ļ ·	1		6,917	1	ı	ı	I		3,665	9g 2ge	1,651	5,784
Hefinery Bulk Terminal	267	မွ	303	-	5	æ	10	2	6	380	4.6	}					•
Pipeline		1	37	1-1	1.1	1.1	1 1	ဗွ ဗွ	;	1	3 1	١	o 	673 37	4 0	172 65	1,222
Total	o 	o 	O 60	0	-	0	0	<u> </u>	8	ا ش	1	1	1	<u>8</u>	00	D 0	357
			3	1	ı	ı	1	523	1	1	, 	1	- 	982	— rυ	25.0	5 68 88
Total Stocks, All Oils	ļ	7 215	215,782	ı	ı												201
					!	ı	1	267 222	Į								

Incirdes 33,879 thousand barrels of domestic crude oil.
Sources: See Explanatory Notes on Data Collection and Estimation.

— Not Applicable.

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Table 21. Movements of Crude Oil and Petroleum Products by Pipeline, Tanker, and Barge Between PAD Districts, September 1983 (Thousand Barrels)

] Œ	From 1 to			From II to	g .	-		From III to	\$		<u> </u>	From IV to		From V to	, to	From V to	g .
Commodity	=	=	>	_	==	2	^	-	=	2	>	=	=	>	-	=	=	2
Crude Oil (Tanker and Barge only)	0	0	0	0	0	0	0	422	1,147	0	0	0	0	0	4,419	0	15,952	0
Petroleum Products	7,983	339	0	3,320	5,948	2,231	694	76,440	27,784	0	1,755	1,934	389	959	0	0	65	0
Natural Gasoline and Isobentane	0	0	0	0	8	0	0	0	37.1	0	0	ഗ	0	0	0	0	ο.	0
Unfractionated Stream	0	0	0	0	512	0	0	0	1,105	0	0	969	389	0	Φ.	0	0	0
Plant Condensate	0	O	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Liouefied Petroleum Gases	0	0	0	712	2,475	139	0	1,599	4,533	0	0	274	0	0	0	0	O +	0
Infinished Oils	55	195	0	0	0	0	133	287	0	0	0	0	0	0	0	0	0	0
Motor Gasoline Blending Components	0	0	0	0	0	0	0	0	989	0	0	0	0	0	0	0	0	0
Aviation Gasoline Blending Components	0	0	0	0	0	o	0	0	0	0	0	0	0	0	0	0	φ.	۰ .
Finished Motor Gasoline	5,334	٥	0	1.287	1,939	1,394	0	45,924	11,660	0	585	228	0	667	٥	0	0	o.
Finished Leaded Motor Gasoline	2.852	0	0	519	10.	805	0	18,212	5,591	0	304	369	0	458	0	0	0	0
Finished Unleaded Motor Gasoline	2.482	0	0	768	925	589	0	27,712	690'9	0	281	90	0	209	0	0	0	0
Finished Aviation Gasoline	က 	0	0	=	0	SS	0	201	212	0	0	0	0	0	0	0	φ·	0
Nachtha-Tyne let Filel	88	0	0	0	128	o	0	591	ន	0	288	E	0	19	0	0	0	0
Kancana-Tuna list Filai	243	0	0	200	\$	463	0	8,370	1,842	0	157	4	0	2	0	0	0	0
Kerosene	20	0	0	0	0	0	0	333	2	0	٥	0	٥	0	0	0	0	0
Discillate Fluel Oil	2.155	٥	0	521	296	210	0	15,504	5,655	0	312	321	0	252	0	0	0	ο.
Residual Fuel Oil	0	0	0	124	75	0	561	2,225	14	0	375	0	0	0	0	0	0	0
Naohtha and Other Oils for Petro.									!	•	•	•	•	•	•	•	•	•
Feedstock	18	o	0	48	0	o	0	187	13	0	0	-	0	-	۰ د	o (۰ د	.
	0	0	0	0	0	0	0	116	114	0	0	0	0	0	0	0	0	0
Library Commence	0	65	0	49	O	0	0	623	323	0	88	0	0	0	a	0	28	0
[4] [4] [5] [5] [5] [5] [6] [6] [6] [6] [6] [6] [6] [6] [6] [6	· c		Ç	0	0	0	0	7	o	0	0	0	0	0	0	0	0	٥
PACKS Dood Oil	• •	· C	c	204	0	0	0	241	812	0	0	0	0	0	0	0	0	0
Miscellaneous Products	36	85	0	185	55	0	0	232	4	0	0	0	0	0	0	0	37	0
Total All Decidings	7 983	339	0	3.320	5,948	2,231	694	76,862	28,931	o	1,755	1,934	389	959	4,419	0	16,017	0
I OLEI Ali TI OLUCUS AMBRELLA INCOLUCIONA	2001	3	,															

Sources: See Explanatory Notes on Data Collection and Estimation.

Table 22. Movements of Petroleum Products by Pipeline between PAD Districts, September 1983 (Thousand Barrels)

	From V to	≥	000000000000000000000000000000000000000	
		>	6657 6677 6677 6677 6677 600 600 600 600 60	
l de la constant de l	O1 A1 1101	≡	0 88 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	
			5 698 0 0 274 0 0 369 369 369 73 73 73 73 73 73 73 73 73 73 73 73 73	
	;	>	0 0 0 0 0 585 304 281 281 157 0 312 0 0 1,342	
From III to	1	<u>></u>	0000000000000000	
Fron	=	=	371 1,105 0 4,533 905 905 10,527 5,056 5,456 1,630 1,63	
	-		0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
٩	≥		1394 1394 1394 1394 1394 1394 1394 1394	
From If to	=		95 0 512 0 0 0 0 2,475 0 1,915 1,014 1,014 1,014 1,014 1,014 1,014 1,014 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
-	-		0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
From 1 to	=			1505
	=		3,905 3,905 1,851 1,851 1,482	í
Commodity			Natural Casoline and Isopentane Unfractionated Stream Plant Condensate Liquefled Petroleum Gases Motor Gasoline Blending Components Aviation Gasoline Blending Components Finished Motor Gasoline Finished Unleaded Motor Gasoline Finished Aviation Gasoline Finished Aviation Gasoline Naphtha-Type Jet Fuel Naphtha-Type Jet Fuel Besidual Fuel Oil Rerosene Distillate Fuel Oil Miscellaneous Products Total Source: See Explanatory Notes on Data Collection and Estimation	

Table 23. Movements of Crude Oil and Petroleum Products by Tanker and Barge Between PAD Districts, September 1983 (Thousand Barrels)

- Common		From to		_	From II to				E HOULE						
Siponicio	=	=	:						5	2			ŭ.	From V to	
	=	=	>	_	=	>	_	New Eng	Sent Sent	Fow ₩	=	>		=	
Crude Oil	-	c	c	•						!				:	
Patroleum Products	,		•	S	0	0	452	0	422	0	1,147	Ö	4,419	•	15 052
Liquefied Petroleum Gases	į o	69 69 69 69 69 69 69 69 69 69 69 69 69 6	00	628 0	တ္ထ ဝ	694	20,656	1,172	3,327	16,157	3,250	413	0	· c	3
Motor Gasoline Blending Components	25	195 0	00	00	00	. E	287	00	287	ရ ဝ	00	00	00	00	g - (
Finished Aviation Gasoline Naphtra-Tune Jet Elect	1,425 0	0 0	00	. 2 5 ±	, 2 c	000	10,708	372	0 1,203	9,133	1,133	000	• • •	000	00
Kerosene-Type Jet Fuel	83 741	0 0	00	0 "	00	00	162 299	5 5	£ 62	191	ඩ් ද	000	0	00	00
Ostilate Fuel Oil	10	000	000	00	90	00	3,15 75	233	470	2,412	212	00	90	00	00
Naphtha and Other Oils for Petro, Feed, Use	0 4	000	> 0 (4 2 4 2 4 2	75 0	561	2,311	489	\$ 2 2	1,718	485	00	0 0	00	00
Special Naphthas Lubricarts	900	9 O Q	900	ထိုင	00	00	187	00	20 89	- - - - - - - - - - - - - - - - - - -	- 5:	375 0	00	00	00
Asphalt and Road Oil	000	300	>00	g 0	о 0	00	623	00	439	<u> </u>	323	၁မ္က	00	00	80
miscellaneous Products	36	89.0	00	2 5	55 0	00	241 232	00	212 00	232	218	900	000	000	00
Same A	2,447	339	٥	628	163	694	21,078	1,172	3.749	16.157	7007	, ;	•	>	è
Source: See Explanatory Notes on Data Collection and Estin	matton,										ieo't	2	4,4 133	0	16,017

Table 24. Net Movements of Crude Oil and Petroleum Products by Pipeline, Tanker and Barge Between PAD Districts, September 1983 (Thousand Barrels)

	A.	P.A.D. District	=	P.A.	P.A.D. District II	=	P.A.	P.A.D. District III	=	P.A.	P.A.D. District IV	≥ ±	P.A.	P.A.D. District V	>
Commodity	Receipts into PADD I	Ship- ments from PADD I	Net Receipts PADD I	Receipts into PADD II	Ship- ments from PADD II	Net Receipts PADD II	Receipts into PADD III	Ship- ments from PADD III	Net Receipts PADD III	Receipts into PADD	Ship- ments from PADD	Net Receipts PADD IV	Receipts into PADD V	Ship- ments from PADD V	Net Receipts PADD V
Crude Oil (Tanker and Barge only)	4,841	0	4,841	1,147	0	1,147	15,952	1,569	14,383	0	٥	0	٥	20,371	-20,371
Petroleum Products	79,760	8,322	71,438	37,701	12,193	25,508	6,741	105,979	-99,238	2,231	3,282	-1,051	3,408	93	3,343
Natural Gasoline	0	0	0	376	96	. 28 1	8	371	-276	0	ָּיָם מּ	ကို မ	0 1	0	0
Unfractionated Stream	00	0 0	00	1,803	212	1291		1,105	-20 -	0 C	1,087	-1,087 0	0 0	0 0	0 0
Tight Office Sale	2311	0	2311	4.807	3,326	1.481	2.475	6.132	-3.657	139	274	-135	0	0	0
Unfinished Oils	287		37	32	133	-78	195	287	-92		i	0	133	Ó	133
Motor Gasoline Blending Components	0		0	686	0	986	0	686	-989	0	0	0	٥	0	0
Avlation Gasoline Blending Components	٥	0	0	٥	0	0	0	0	0	0			0	0	0
Finished Motor Gasoline	47,211		41,877	17,553	4,620	12,933	1,939	58,169	-56,230	1,394	1226	8	1,252	0	1,252
Finished Leaded Motor Gasoline	18,731	2,852	15,879	8,812	2,338	6,474	1,014	24,107	-23,093	805			762	0	762
Finished Unleaded Motor Gasoline	28,480		25,998	8,741	2,282	6,459	925	34,062	-33,137	589			490	0	490
Finished Avlation Gasoline	212		203	젒	99	185 185	0	413	413	ĸ		52	0	0	O
Naphtha-Type Jet Fuel	591	83	208	259	128	5	128	385	-854	0	92	-95	307	0	307
Kerosene-Type Jet Fuel	8,579		8,336	2,089	38	1,353	22	10,369	-10,305	463	S	438	178	0	178
Kerosene	333		88 88	7	0	7	0	354	-354	0	0	0	0	0	0
Distillate Fuel Oil	16,025		13,870	8,131	1,327	6,804	969	21,47	-20,875	210	573	-363	564	0	564
Residual Fuel Oil	2,349	0	2,349	17	760	-743	75	2,617	-2,542	0	0	0	936	0	936
Naphtha and Other Oils for Petro.															
Feedstock Use	205		187	မ	18	<u>t</u>	0	200	-200	0	٥	0	0	0	0
Special Naphthas	116		116	114	0	114		83 83	-230	0	0	0	0	0	0
Lubricants	672	59	513	323	8	565	96	984	-888	0	0	0	8	88	10
Waxes	۲		۲-	٥	0	0		~	-7	0	0	0	0	0	o
Asphalt and Road Oil	445		445	912	204	808		1,053	-1,053	0	0	0	٥	0	0
Miscellaneous Products	417	121	296	S S	240	130	171	246	69	O	0	0	0	37	-37
Total All Products	84,601	8,322	76,279	38,848	12,193	26,655	22,693	22,693 107,548	-84,855	2,231	3,282	-1,051	3,408	20,436	-17,028

Sources: See Explanatory Notes on Data Collection and Estimation.

Table 25. Production of Residual Fuel Oil By Sulfur Content, September 1983 (Thousand Barrels)

ļ	pg s	24,448 2,257 7,976 14,215	
	United	n w w w	
	PAD Dist. V West Coast		
ļ	PAD Dist. IV Rocky Mf.	345 56 113 176	
İ	Total	11,082 618 2,876 7,588	
	New	47 0 0 4	
	No. La. M	287 84 151 52	
i	Coast	2,494 221 812 1,461	
	Texas Gulf Coast	7,619 240 1,464 5,915	
	Texas	635 66 449 120	
	Total	1,826 225 393 1,208	
	Okla., Kans., Mo.	270 102 84 84	
PAD District	Minn. Wisc.	176 0 0 176	
Ag.	ind., ≣., Ky	1,300 123 334 843	
	Appala- chian #2	80 0 -25 105	
-	Total	2,420 705 1,515 200	ë
PAD District	Appala- chian #1	37.0 4	ESUMBLION
PA	Coast	2,379 668 1,515 196	
	Commodity	A 1000 to 0.30% Sulfur 668 37 0.31 to 1.00% Sulfur 1.515 CGreater Than 1.00% Sulfur 1.96 A 50 100 Sulfur 1.515 CGreater Than 1.00% Sulfur 1.96 A 50 100 Sulfur 1.00% Sulfur 1.96 A 50 100 Sulfur 1.96	יייייייייייייייייייייייייייייייייייייי

Table 26. Stocks of Residual Fuel Oil By Sulfur Content, September 1983 (Thousand Barrels)

Sources: See Explanatory Notes on Data Collection and Estimation.

— Not Applicable

Table 27. Movements of Residual Fuel Oil by Tanker and Barge Between PAD Districts, By Sulfur Content, September 1983 (Thousand Barrels)

		From I to		·	From II to				From 11 to	! :		 			
Commodify										2				From V to	Ö
	=	=	>	······································		>	-	New Eng	Att Att	Low	=	>	_	==	=
Residual Fuel Oil 0.00 to 0.30% Sulfur 0.31 to 1.00% Sulfur Greater Than 1.00% Sulfur Source: See Explanation Notes on Data Calcains	0000	0000	0000	124 0 5 119	ξ, 0 ο ιξ.	561 561 5	2,225 0 606 1,619	. 28 28 28 28	171	1,996 0 606 1,390	77 00 07	375 0 375 0	0000		9000

Table 26. Imports of Residual Fuel Oil by Sulfur Content by Country of Origin, September 1983 (Thousand Barrels)

		Residua	l Fuel Oil	
Country	0.00 to 0.30%	0.31 to 1.00%	Greater Than 1.00%	Total
Arab OPEC				
	833	1.004	^	4.007
Algeria		1,094	0	1,927
lraq	0	0	0	0
Kuwait	0	0	521	521
Libya	0	0	ō	Ō
Qatar	0	0	0	0
Saudi Arabia	0	0	620	62 0
United Arab Emirates	0	0	0	0
Subtotal Arab OPEC	833	1,094	1,141	3,069
Other OPEC				
Ecuador	0	0	186	186
Gabon	0	0	0	0
Indonesia	373	0	0	37 3
Iran	Ō	Ö	Ō	0
Nigeria	ō	Ŏ	7	7
Venezuela	497	Ŏ	2,428	2,925
Subtotal Other OPEC	871	ŏ	2,621	3,491
Nata				
Other	0	257	0	257
Angola	-		Ŏ	0
Australia	0	0	150	653
Bahamas	403	100 0	0	003
Bolivia	0	•	=	492
Brazil	292	200	0	492
Brunel	0	0	•	690
Canada	264	138	288	
Congo	167	177	0	344
Egypt	0	0	0	0
France	0	Ō	0	0
Ghana	0	0	ō	0
Liberia	200	0	<u>o</u> .	200
Malaysia	0	0	2	2
Mexico	12	0	7	18
Netherlands	0	0	0	0
Netherlands Antilles	0	0	4,557	4,557
Norway	Õ	0	0	Ō
Oman	0	0	0	Ō
People's Republic of China	Ö	0	0	0
Peru	Õ	Ö	523	523
Puerto Rico	ŏ	Ō	0	0
	Õ	ō	0	0
Romania	0	ŏ	64	64
Spain	Ö	ŏ	Ö	0
Syria	(s)	ŏ	ō	(s)
Trinidad	رد)	ő	ō	`´ o
Tunisla	0	323	ŏ	323
United Kingdom	179	2,241	1,148	3,567
Virgin Islands		2,241	ő	0
Yugoslavia	0	ŏ	ů.	ō
Zaire	0	=	=	1.008
Other Western Hemisphere	537	0	471	1,440
Other Eastern Hemisphere	544	599	296	14,138
Subtotal Other	2,598	4,035	7,505	14,130
	4,301	5,129	11,267	20,698

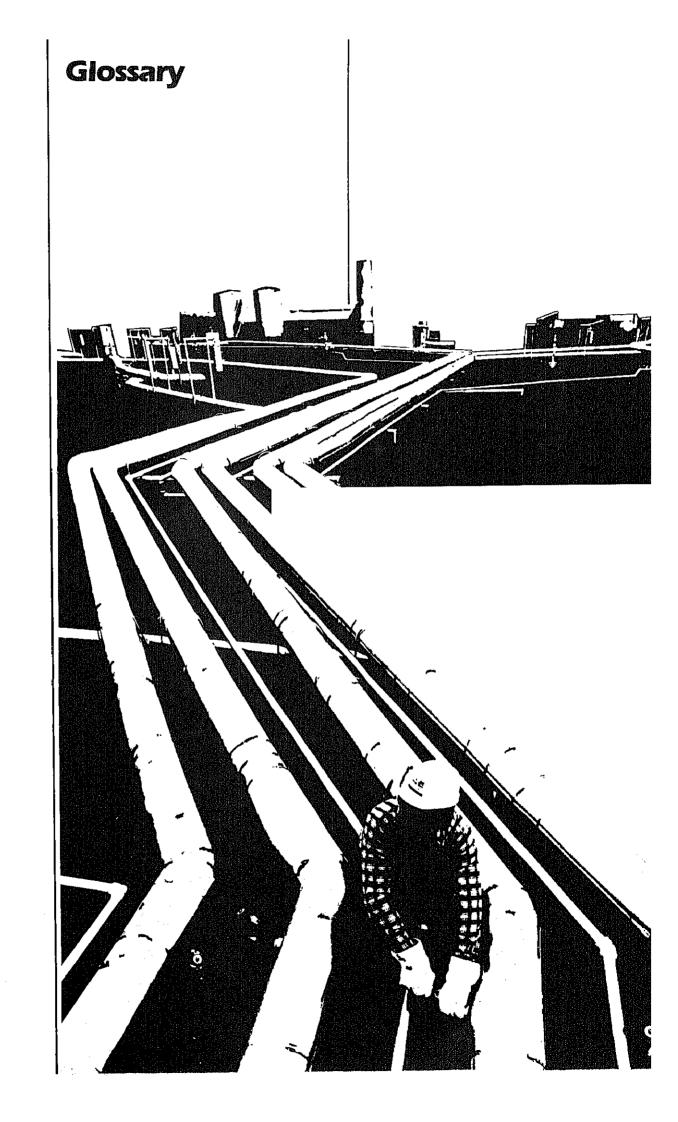
⁽s) Less than 500 barrels. Note: Total may not equal sum of components due to independent rounding. Sources: See Explanatory Notes on Data Collection and Estimation.

Table 29. Imports of Residual Fuel Oil by Sulfur Content by State of Entry, September 1983 (Thousand Barrels)

State	Residual Fuel Oil				
	0.00 to 0.30%	0.31 to 1.00%	Greater Than 1.00%	Total	
PAD District I	3,734		_!		
rionda		4,739	9,395	17,888	
Georgia	0	929	1,120	2,049	
Maine	_	0	224	224	
Maryland	0	155	833		
Massachusetts	53	311	279	988	
New Hampshire	0	323	599	642	
New Jereny	(S)	0	151	922	
New York	955	936	1,074	151	
New York	2,661	1,756		2,965	
North Carolina	(s)	.,,	3,329	7,747	
Pennsylvania	59	ő	206	207	
Phode Island	0	ŏ	105	164	
South Carolina	ā	Ŏ	47	47	
vermont	6	•	311	311	
Virginia	ŏ	0	0	6	
	v	329	1,116	1,446	
AD District II	183			1,110	
IFICIS		45	70	299	
morngan	52	0	0		
Ainnesota	5 5	45	ñ	52	
orth Dakota	4	0	23	100	
Phio	1	0	32	28	
	70	0	15	33	
D District III		-	15	85	
Aziciana	11	345	4.000		
ouisiana	(5)	0	1,306	1,683	
exas	11	345	10	10	
D Dietalet 192		945	1,296	1,653	
D District IV	٥	•			
ontana	ŏ	0	31	31	
	ŭ	0	31	31	
District V	374			٠.	
morna and and an and an an an an an an an an an an an an an	374 O	0	484	838	
IWAN	_	0	392	392	
ashington	(S)	0	67		
	373	0	5	67	
PAD Districts			y	378	
	4,301	5,129	11,267	20,698	

(s) Less than 500 barrels.

Note: Total may not equal sum of components due to independent rounding. Sources: See Explanatory Notes on Data Collection and Estimation.



Definitions of Petroleum Products and Other Terms

Alcohol. The family name of a group of organic chemical compounds composed of carbon, hydrogen, and oxygen. The series of molecules vary in chain length and are composed of a hydrocarbon plus a hydroxyl group; CH-(CH)n-OH. Alcohol includes methanol and ethanol.

Alkylation. A refinery process for chemically combining isoparaffin with olefin hydrocarbons. The product, alkylate, has high octane value and is blended with motor and aviation gasoline to improve the antiknock value of the fuel.

API Gravity. An arbitrary scale expressing the gravity or density of liquid petroleum products. The measuring scale is calibrated in terms of degrees API; it may be calculated in terms of the following formula:

Deg API =
$$\frac{141.5}{\text{sp gr }60\text{F}/60\text{F}}$$
 - 131.5

Aromatics. Hydrocarbons characterized by unsaturated ring structures of carbon atoms. Commercial petroleum aromatics are benzene, toluene, and xylene.

Asphalt. A dark-brown-to-black cement-like material, containing bitumens as the predominant constituents, obtained by petroleum processing. The definition includes crude asphalt as well as the following finished products: cements, fluxes, the asphalt content of emulsions (exclusive of water), and petroleum distillates blended with asphalt to make cutback asphalts. The conversion factor for asphalt is 5.5 barrels of 42 U.S. gallons per short ton.

ASTM. The acronym for the American Society for Testing and Materials.

Aviation Gasoline Blending Components. Finished components in the gasoline range which will be used for blending or compounding into finished aviation gasoline.

Aviation Gasoline, Finished. All special grades of gasoline for use in aviation reciprocating engines, as given in ASTM Specification D910 and Military Specification MIL-G-5572. Excludes blending components which will be used in blending or compounding into finished aviation gasoline.

Barrel. A volumetric unit of measure for crude oil and petroleum products equivalent to 42 U.S. gallons. This measure is used in most statistical reports. Factors for converting petroleum coke, asphalt and wax to barrels are given in the definitions for these products.

Barrels per Calendar Day. The maximum number of barrels of Input that can be processed in a twenty-four hour period after making allowances for the following limitations: downstream limitations, environmental constraints, types and grades of inputs, planned and unplanned downtime, and types and grades of products.

Barrels Per Stream Day. The amount a unit can process running at full capacity under optimal crude and product slate conditions.

Bi-metallic. A term used to describe a type of catalyst. A catalytic process utilizing a catalyst comprised of two metals (e.g., platinum, rhenium).

Butane. A normally gaseous paraffinic hydrocarbon, C4H10. It is extracted from natural gas or refinery gas streams. Butane is covered by ASTM Specification D1835 and Gas Processors Association Specification for commercial butane.

Isobutane. A saturated straight-chain hydrocarbon of butane. It is a colorless paraffinic gas that boils at a temperature of 10.9 degrees F. This classification includes mixtures of gases that contain 80 percent liquid volume or more isobutane. It is extracted from natural gas and refinery gas streams.

Normal Butane. A saturated straight-chain hydrocarbon of butane. It is a colorless paraffinic gas that boils at a temperature of 31.1 degrees F. This classification includes mixtures of gases that contain 80 percent or more normal butane.

Other Butanes. All butanes not included as normal butane or isobutane.

Butane-Propane Mixtures. Mixtures consisting exclusively of butane and propane that conform to ASTM Specification D1835 and Gas Processors Association Specification for commercial butane-propane mixtures. They are extracted from natural gas and refinery gas streams.

Butylene. An oleflnic hydrocarbon, C4H8, recovered from refinery processes.

Catalytic Cracking. The refining process of breaking down the larger, heavier, and more complex hydrocarbon molecules into simpler and lighter molecules. Catalytic cracking is accomplished by the use of a catalytic agent and is an effective process for increasing the yield of gasoline from crude oil.

Catalytic Hydrocracking. A refining process for converting middle boiling or residual material to high-octane gasoline, reformer charge stock, jet fuel and/or high grade fuel oil. Hydrocracking is an efficient, relatively low temperature process using hydrogen and a catalyst.

Catalytic Hydrotreating. A process for treating petroleum fractions (e.g., distillate fuel oil and residual fuel oil) and unfinished oils (e.g., naphthas, reformer feeds and heavy gas oil) in the presence of catalysts and substantial quantities of hydrogen to upgrade their quality.

Catalytic Reforming. The use of controlled heat and pressure with catalysts to effect the rearrangement of certain hydrocarbon molecules without altering their composition appreciably; the conversion of low-octane

gasoline fractions into higher octane stocks suitable for blending into finished gasoline; also the conversion of naphthas to obtain a more volatile product of higher octane number.

Conventional. A term used to describe a type of catalyst. A catalytic process utilizing a catalyst comprised of a metal and a non-metal (e.g., platinum, alumina).

Coal. A generic term applied to carbonaceous rocks that were formed by the partial or complete decomposition of vegetation. These stratified carbonaceous rocks are either solid or brittle and are highly combustible. Includes lignite, bituminous coal, and anthracite coal which conform to ASTM Specification D388.

Crude Distillation. The refining process of separating crude oil components by heating and subsequent condensing of the fractions by cooling.

Crude Oil (including Lease Condensate). A mixture of hydrocarbons that existed in liquid phase in underground reservoirs and remains liquid at atmospheric pressure after passing through surface separating facilities. Included are lease condensate and liquid hydrocarbons produced from tar sands, gilsonite and oil shale. Drip gas is also included, but topped crude oil (residual oil) and other unfinished oils are excluded. Liquids produced at natural gas processing plants and mixed with crude oil are likewise excluded where identifiable. Crude oil is considered as either domestic or foreign according to the following:

Domestic. Crude oil produced in the United States or from its outer continental shelf as defined in 43 U.S.C. 1331.

Foreign. Crude oil produced outside the United States.

Delayed Coking. A process to produce low Conradson carbon gas for catalytic cracking feedstock and for gasoline.

Distillate Fuel Oil. A general classification for one of the petroleum fractions produced in conventional distillation operations. It is used primarily for space heating, on-and-off-highway diesel engine fuel (including railroad engine fuel and fuel for agricultural machinery), and electric power generation. Included are products known as No. 1, No. 2, and No. 4 fuel oils; No. 1, No. 2, and No. 4 diesel fuel.

No. 1 Fuel Oil. A light distillate fuel oil intended for use in vaporizing pot-type burners. ASTM Specification D396 specifies for this grade maximum distillation temperatures of 420 degrees F. at the 10-percent point and 550 degrees F. at the 90-percent point, and kinematic viscosities between 1.4 and 2.2 centistokes at 100 degrees F.

No. 2 Fuel Oil. A distillate fuel oil for use in atomizingtype burners for domestic heating or for moderate capacity commercial-industrial burner units. ASTM Specification D396 specifies for this grade distillation temperatures at the 90-percent point between 540 degrees and 640 degrees F., and kinematic viscosities between 2.0 and 3.6 centistokes at 100 degrees F.

No. 1 and No. 2 Diesel Fuel Oils. Distillate fuel oils used in compression-ignition engines, as given by ASTM Specification D975:

No. 1-D. A volatile distillate fuel oil with a boiling range between 300-575 degrees F. and used in high-speed diesel engines generally operated under wide variations in speed and load. Includes type C-B diesel fuel used for city buses and similar operations. Properties are defined in ASTM Specifications D975.

No. 2-D. A gas oil type distillate of lower volatility with distillation temperatures at the 90-percent point between 540-640 degrees F. for use in high-speed diesel engines generally operated under uniform speed and load conditions. Includes Type R-R diesel fuel used for railroad locomotive engines, and Type T-T for diesel-engine trucks. Properties are defined in ASTM Specification D975.

No. 4 Fuel Oil. A fuel oil for commercial burner installations not equipped with preheating facilities. It is used extensively in industrial plants. This grade is a blend of distillate fuel oil and residual fuel oil stocks that conforms to ASTM Specification D396 or Federal Specification VV-F-815C; its kinematic viscosity is between 5.8 and 26.4 centistokes at 100 degrees F. Also included is No. 4-D, a fuel oil for low- and medium-speed diesel engines that conforms to ASTM Specification D975.

Eastern Hemisphere. That half of the earth east of the Atlantic Ocean which includes Europe, Asia, Africa, and Australia. The Hawalian Foreign Trade Zone is in this hemisphere.

Electric Energy (Purchased). Electricity purchased for refinery operations that is not produced within the refinery complex.

Ethane. A normally gaseous paraffinic compound (C2H6) extracted from natural gas and refinery gas streams. "Ethane" includes any products containing 90 percent liquid volume or more ethane.

Ethane-Propane Mixtures. Mixtures of ethane and propane in which neither component is 90 percent or more of the liquid volume. It is extracted from natural gas and refinery gas streams.

Ethylene. An olefinic hydrocarbon, (C2H4) recovered from refinery or petrochemical processes.

Field Production. Represents crude oil production on leases, natural gas liquids production at natural gas processing plants, and new supply of other hydrocarbons and alcohol.

Fluid Coking: A thermal process utilizing the fluidizedsolids technique for continuous conversion of heavy, low-grade oils into lighter products.

Gasoline Blending Components. Finished components in the gasoline range which will be used for blending or compounding into finished aviation or motor gasoline.

Gas Oil. A liquid petroleum distillate having a viscosity intermediate between that of kerosene and lubricating oil. Derives its name from having originally been used in the manufacture of illuminating gas. Now supplies distillate-type fuel oils and diesel fuel, also cracked to produce gasoline.

imported Crude Oil Burned as Fuel. The amount of foreign crude oil burned as a fuel oil, usually as residual fuel oil, without being processed as such. Imported crude oil burned as fuel includes lease condensate and liquid hydrocarbons produced from tar sand oil, gilsonite, and oil shale.

isomerization. A refining process which alters the fundamental arrangement of atoms in the molecule. Used to convert normal butane into isobutane, an alkylation process feedstock, and normal pentane and hexane into isopentane and isohexane, high-octane gasoline components.

Kerosene. A petroleum distillate that boils at a temperature between 300-550 degrees F., that has a flash point higher than 100 degrees F. by ASTM Method D56, that has a gravity range from 40-46 degrees API, and that has a burning point in the range of 150-175 degrees F. Included are the two classifications recognized by ASTM D-3699: No. 1-K and No. 2-K, and all grades of kerosene called range or stove oil which have properties similar to No. 1 fuel oil, but with a gravity of about 43 degrees API and a maximum end-point of 625 degrees F. Kerosene is used in space heaters, cook stoves, and water heaters and is suitable for use as an illuminant when burned in wick lamps.

Kerosene-Type Jet Fuel. A quality kerosene product with an average gravity of 40.7 degrees API, a 10 percent distillation temperature of 400 degrees F. It is covered by ASTM Specification D1655 and Military Specifications MIL-T-5624L (Grades JP-5 and JP-8). A relatively low-freezing point distillate of the kerosene type; it is used primarily for commercial turbojet and turboprop aircraft engines.

Lease Condensate. A natural gas liquid recovered from gas well gas (associated and non-associated) in lease separators or natural gas field facilities. Lease condensate consists primarily of pentanes and heavier hydrocarbons.

Liquefied Petroleum Gases (LPG). Propane, propylene, butanes, butylene, butane-propane mixtures, ethane-propane mixtures, and isobutane produced at refineries or natural gas processing plants, including plants that fractionate raw natural gas plant liquids.

Liquefied Refinery Gases (LRG). Liquefied petroleum gases fractionated from refinery or still gases. Through compression and/or refrigeration they are retained in the liquid state. The reported categories are ethane and/or ethylene, propane and/or propylene, butane and/or butylene, butane-propane mixtures, and isobutane. Excludes still gases used for chemical or rubber manufacture which are reported as a petrochemical feedstock and also excludes liquefied gases ready for blending into gasoline which are reported as gasoline blending components. Liquefied refinery gases are reported for use as petrochemical feedstocks or other uses.

Lubricating Oils. A substance used to reduce friction between bearing surfaces. Petroleum lubricants may be produced either from distillates or residues. Other substances may be added to impart or improve certain required properties. Lubricants includes all grades of lubricating oils from spindle oil to cylinder oil and those used in greases. The three categories include Bright Stock, Neutral, and Other.

Bright Stock. A refined, high viscosity lubricating oil base stock that is usually made from residuum by a treatment such as deasphalting, acid treatment, or solvent extraction.

Neutral. A distillate lubricating oil base stock with a viscosity that is usually not above 550 Saybolt Universal Seconds (SUS) at 100 degrees F. It is prepared by a treatment such as hydrofining, acid treatment, or solvent extraction.

Other. A lubricating oil base stock used in finished lubricating oils and greases, including black, coastal, and red oils.

Middle Distillates. A general classification that includes distillate fuel oil and kerosene.

Miscellaneous Products. Includes all finished products not classified elsewhere, e.g., petrolatum, absorption oils, ram-jet fuel, petroleum rocket fuels, synthetic natural gas feedstocks, speciality oils and medicinal oils.

Motor Gasoline Blending Components. Finished components in the gasoline range which will be used for blending or compounding into finished motor gasoline. Pool gasoline is included in this category.

Motor Gasoline, Finished. A complex mixture of relatively volatile hydrocarbons, with or without small quantities of additives, that have been blended to form a fuel suitable for use in spark-ignition engines. Specifications for motor gasoline, as given in ASTM Specification D439 or Federal Specification VV-G-1690B, include a boiling range of 122 degrees to 158 degrees F. at the 10-percent point to 365 degrees to 374 degrees F. at the 90-percent point and a Reid vapor pressure range from 9 to 15 psl. Motor gasoline includes finished leaded gasoline, finished unleaded gasoline, and gasohol. Blendstock is excluded until blending has been completed. Alcohol that is to be used in the blending of gasohol is also excluded.

Finished Leaded Gasoline. Contains more than 0.05 gram of lead per gallon or more than 0.005 gram of phosphorus per gallon. The actual lead content of any given gallon, however, may vary as a function of the size of the producer and company according to specific Environmental Protection Agency waiver provisions. Premium and regular grades are included, depending on the octane rating. Includes leaded gasohol. Blendstock is excluded until blending has been completed. Alcohol that is to be used in the blending of gasohol is also excluded.

Finished Unleaded Gasoline. Contains not more than 0.05 gram of lead per gailon and not more than 0.005 gram of phosphorus per gailon. Premium and regular grades are included, depending on the octane rating. Includes unleaded gasohol. Blend stock is excluded until blending has been completed. Alcohol that is to be used in the blending of gasohol is also excluded.

Gasohol. A blend of finished motor gasoline (leaded or unleaded) and alcohol (generally ethanol but sometimes methanol) in which 10 percent or more of the product is alcohol.

Motor Gasoline, Total. Includes finished leaded motor gasoline, finished unleaded motor gasoline, motor gasoline blending components, and gasohol.

Naphtha-Type Jet Fuel. A fuel in the heavy naphtha boiling range with an average gravity of 52.8 degrees API and 20 to 90 percent distillation temperatures of 290 degrees to 470 degrees F., meeting Military Specification MIL-T-5624L (Grade JP-4). JP-4 is used for turbojet and turboprop alreraft engines, primarily by the military. Excludes ram-jet and petroleum rocket fuels.

Natural Gas. A mixture of hydrocarbons and small quantities of various nonhydrocarbons existing in the gaseous phase or in solution with crude oil in underground reservoirs.

Natural Gas Field Facility. A field facility designed to process natural gas produced from more than one lease for the purpose of recovering condensate from a stream of natural gas; however, some field facilities are designed to recover propane, butane, natural gasoline, etc., and to control the quality of natural gas to be marketed.

Natural Gas Plant Liquids. Natural gas liquids recovered from natural gas in gas processing plants, and in some situations, from natural gas field facilities. Natural gas liquids extracted by fractionators are also included. These liquids are defined according to the published specifications of the Gas Processors Association and the American Society for Testing and Materials, and are classified as follows: Ethane, propane, ethane-propane mix, isobutane, butane, butane-propane mix, isopentane, natural gasoline, plant condensate, unfractionated stream, and other products from natural gas processing plants (i.e., products meeting the standards of finished petroleum products produced at natural gas processing plants, such as finished

motor gasoline, finished aviation gasoline, special naphthas, kerosene, distillate fuel oil, and miscellaneous products).

Natural Gasoline and Isopentane. A mixture of hydrocarbons, mostly pentanes and heavier, extracted from natural gas, that meets vapor pressure, end-point, and other specifications for natural gasoline set by the Gas Processors Association. Includes isopentane which is a saturated branch-chain hydrocarbon, C5H12, obtained by fractionation of natural gasoline or isomerization of normal pentane.

OPEC. The acronym for the Organization of Petroleum Exporting Countries, oil-producing and exporting countries that have organized for the purpose of negotiating with oil companies on matters of oil production, prices, and future concession rights. Current members are Algeria, Ecuador, Gabon, Indonesia, Iran, Iraq, Kuwalt, Libya, Nigeria, Qatar, Saudi Arabia, United Arab Emirates, and Venezuela.

Operable Distillation Capacity. The maximum amount of input that can be processed by a crude oil distillation unit in a 24-hour period, making allowances for processing limitations due to types and grades of inputs, limitations of downstream facilities, scheduled and unscheduled downtimes, and environmental constraints. Includes any shutdown capacity that could be placed in operation within 90 days.

Other Hydrocarbons. Materials received by a refinery and consumed as raw materials. Includes hydrogen, coal tar derivatives, gilsonite, and natural gas received by the refinery for reforming into hydrogen. Natural gas to be used as fuel is excluded.

Petrochemical Feedstock Use. Chemical feedstocks derived from petroleum, principally for the manufacture of chemicals, synthetic rubber, and a variety of plastics. The categories reported are Naphtha-less than 400 degrees F. end-point and Other oils-over 400 degrees F. end-point.

Naphtha-Less Than 400 Degrees F. End-Point. A naphtha with an end point of less than 400 degrees F. that is reported as used as a petrochemical feed-stock.

Other Oils-Over 400 Degrees F. End-Point. Oils with an end point over 400 degrees F. that is reported as used as a petrochemical feedstock.

Petroleum Coke. A residue, the final product of the condensation process in cracking. This product is reported as marketable coke or catalyst coke. The conversion factor is five barrels of 42 U.S. gallons per short ton.

Marketable Coke. Those grades of coke produced in delayed or fluid cokers which may be recovered as relatively pure carbon. This green coke may be sold or further purified by calcining.

Catalyst Coke. In many catalytic operations (i.e., catalytic cracking) carbon is deposited on the catalyst, thus deactivating the catalyst. The catalyst is reactivated by burning off the carbon, which is used as a fuel in the refinery process. This carbon or coke is not recoverable in a concentrated form.

Petroleum Products. Petroleum products are obtained from the processing of crude oil (Including lease condensate), natural gas, and other hydrocarbon compounds. Petroleum products include unfinished oils, natural gasoline and isopentane, plant condensate, unfractionated stream, liquefied petroleum gases, aviation gasoline, motor gasoline, naphtha-type jet fuel, kerosene-type jet fuel, kerosene, distillate fuel oil, residual fuel oil, naphtha less than 400° F. end-point, other oils-over 400° F. end-point, special naphthas, lubricants, waxes, petroleum coke, asphalt, road oil, still gas, and miscellaneous products.

Petroleum Refinery. An installation that manufactures finished petroleum products from crude oil, unfinished oils, natural gas liquids, other hydrocarbons, and alcohol.

Plant Condensate. One of the natural gas liquids, mostly pentanes and heavier hydrocarbons, recovered and separated as liquids at gas inlet separators or scrubbers in processing plants.

Primary Stocks. Stocks of crude oil or petroleum products held in storage at (or in) leases, refineries, natural gas processing plants, pipelines, tankfarms, and bulk terminals that can store at least 50,000 barrels of petroleum products or that can receive petroleum products by tanker, barge, or pipeline. Crude oil that is in transit from Alaska, or that is stored on Federal leases or in the Strategic Petroleum Reserve is included. Primary Stocks excludes stocks of foreign origin that are held in bonded warehouse storage.

Propane. A normally gaseous paraffinic compound, C3H8, which includes all products covered by NGPA Specification for commercial and HD-5 propane and ASTM Specification D1835. It is used primarily as a fuel and as a petrochemical feedstock.

Propylene. An olefinic hydrocarbon, C3H6, recovered from refinery or petrochemical processes.

Residual Fuel Oil. The topped crude of refinery operation which includes No. 5 and No. 6 fuel oils as defined in ASTM Specification D396 and Federal Specification VV-F-815C, Navy Special fuel oil as defined in Military Specification MIL-F-859E including Amendment 2 (NATO Symbol F-77), and Bunker C fuel oil. Residual fuel oil is used for the production of electric power, space heating, vessel bunkering, and various industrial purposes. Includes imported crude oil to be burned as a fuel.

Road Oil. Any heavy petroleum oil, including residual asphaltic oil used as a dust pallative and surface treatment on roads and highways. It is generally produced in

six grades from 0, the most liquid, to 5, the most viscous.

Special Naphthas. All finished products within the gasoline range that are used as paint thinners, cleaners, or solvents. These products are refined to a specified flash point and have a boiling range of 90 degrees to 220 degrees F. Special naphthas includes all commercial hexane and cleaning solvents conforming to ASTM Specifications D1836 and D484, respectively. Naphthas to be blended or marketed as motor gasoline or aviation gasoline or that are to be used as petrochemical and synthetic natural gas (SNG) feedstocks are excluded.

Steam (Purchased). Steam, purchased for use by a refinery, that was not generated from within the refinery complex.

Still Gas (Refinery Gas). Any form or mixture of gas produced in refineries by distillation cracking, reforming, and other processes. The principal constituents are methane, ethane, ethylene, butane, butylene, propane, propylene, etc. Still gas is reported for petrochemical feedstock use and/or refinery fuel use.

Petrochemical Feedstock Use. Includes all refinery streams which are used by chemical or rubber manufacturing operations for further processing, less the amount of such streams returned to the source refinery. Finished petrochemical products are not included. For example, polyethylene, butadiene, etc., are considered petrochemical products; therefore, only their feed-stock equivalents are included.

Fuel Use. All other still gas.

Strategic Petroleum Reserve (SPR). Stocks (currently, only crude oil) maintained by the Federal Government for use during periods of major supply interruption.

Thermal Cracking. A refining process in which heat and pressure are used to break down, rearrange, or combine hydrocarbon molecules. Thermal cracking is used to increase the yield of gasoline obtainable from crude oil.

Unfinished Oils, includes all oils requiring further processing, except those requiring only mechanical blending.

Untractionated Streams. Mixtures of unsegregated natural gas liquid components excluding those included in plant condensate. This product is extracted from natural gas.

Vacuum Distillation. Distillation under reduced pressure (less the atmospheric) which lowers the boiling temperature of the liquid being distilled. This technique, with its relatively low temperatures, prevents cracking or decomposition of the charge stock.

Visbreaking. A thermal cracking process in which heavy vacuum-still bottoms produced on the primary

distillation unit are cracked to increase production of distillate products.

Wax. A solid or semi-solid material derived from petroleum distillates or residues by such treatments as chilling, precipitating with a solvent, or de-oiling. It is lightcolored, more-or-less translucent crystalline mass, slightly greasy to the touch, consisting of a mixture of solid hydrocarbons in which the paraffin series predominates. Includes all marketable wax whether crude scale or fully refined. The three grades included are microcrystalline, crystalline-fully refined, and crystalline-other. The conversion factor is 280 pounds per 42gallon barrel.

Microcrystalline Wax. Wax extracted from certain petroleum residues having a finer and less apparent crystalline structure than paraffin wax and having the following physical characteristics:

Penetration at 77 degrees F. (D-1321)-60 maximum. Viscosity at 210 degrees F. in Saybolt Universal Seconds (SUS) (D-88)-60 SUS (10.22 centistokes) minimum to 150 SUS (31.8 centistokes) maximum. Oil content (D-721)-5 percent minimum.

Crystalline-Fully Refined Wax. A light-colored paraffin wax having the following characteristics:

Viscosity at 210 degrees F. (D-88)-59.9 SUS (10.18 centistokes) maximum. Oil Content (D-721)-0.5 percent maximum. Other + 20 color, Saybolt minimum.

Crystalline-Other Wax. A paraffin wax having the following characteristics:

Viscosity at 210 degrees F. (D-88)-59.9 SUS (10.18 centistokes) maximum. OII Content (D-721)-0.51 percent minimum to 15 percent maximum.

Western Hemisphere. That half of the earth that includes North and South America and the surrounding waters.

Bureau of Mines Petroleum Refining Districts and PAD Districts

The following are the Bureau of Mines petroleum refining districts which make up the PAD districts:

PAD District I

East Coast: District of Columbia and the States of Maine, New Hampshire, Vermont, Massachusetts, Rhode Island, Connecticut, New Jersey, Delaware, Maryland, Virginia, North Carolina, South Carolina, Georgia, Florida, and the following countles of the State of New York: Cayuga, Tompkins, Chemung and all countles east and north thereof. Also the following countles in the State of Pennsylvania: Bradford, Sullivan, Columbia, Montour, Northumberland, Dauphin, York, and all countles east thereof.

Appalachian #1: The State of West Virginia and those parts of the States of Pennsylvania and New York not included in the East Coast District.

PAD District II

Appalachian #2: The following counties of the State of Ohio: Erie, Huron, Crawford, Marion, Delaware, Franklin, Pickaway, Ross, Pike, Scioto, and all counties east thereof.

Indiana—Illinois—Kentucky: The States of Indiana, Illinois, Kentucky, Tennessee, Michigan, and that part of the State of Ohio not included in the Appalachian District.

Minnesota—Wisconsin—North and South Dakota: The States of Minnesota, Wisconsin, North Dakota, and South Dakota.

Oklahoma—Kansas—Missouri: The States of Oklahoma, Kansas, Missouri, Nebraska, and lowa.

PAD District III

Texas Inland: The State of Texas except the Texas Gulf Coast District.

Texas Gulf Coast: The following counties of the State of Texas: Newton, Orange, Jefferson, Jasper, Tyler, Hardin, Liberty, Chambers, Polk, San Jacinto, Montgomery, Harris, Galveston, Waller, Fort Bend, Brazoria, Wharton, Matagorda, Jackson, Victoria, Calhoun, Refuglo, Aransas, San Patricio, Nueces, Kleberg, Kenedy, Willacy, and Cameron.

Louisiana Guif Coast: The following Parishes of the State of Louisiana: Vernon, Rapides, Avoyelles, Pointe Coupee, West Feliciana, East Feliciana, Saint Helena, Tangipahoa, Washington, and all Parishes south thereof. Also the following counties of the State of Mississippi: Pearl River, Stone, George, Hancock, Harrison, and Jackson. Also the following counties of the State of Alabama: Mobile and Baldwin.

North Louisiana—Arkansas: The State of Arkansas and those parts of the States of Louisiana, Mississippi, and Alabama not included in the Louisiana Gulf Coast District.

New Mexico: The State of New Mexico.

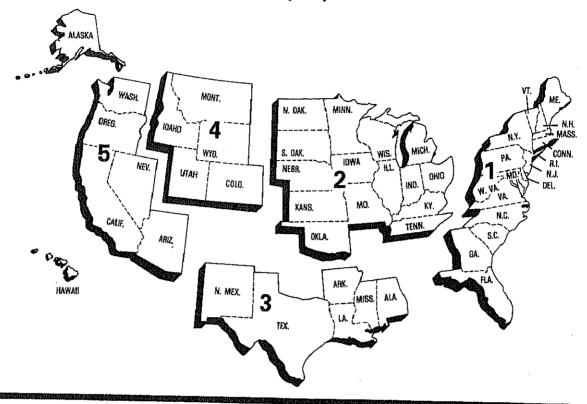
PAD District IV

Rocky Mountain: The States of Montana, Idaho, Wyoming, Utah, and Colorado.

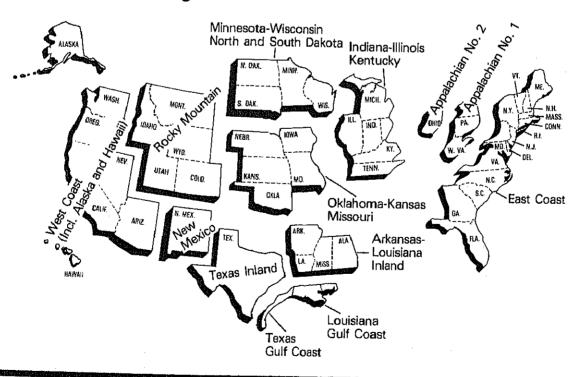
PAD District V

West Coast: The States of Washington, Oregon, California, Nevada, Arlzona, Alaska, and Hawaii.

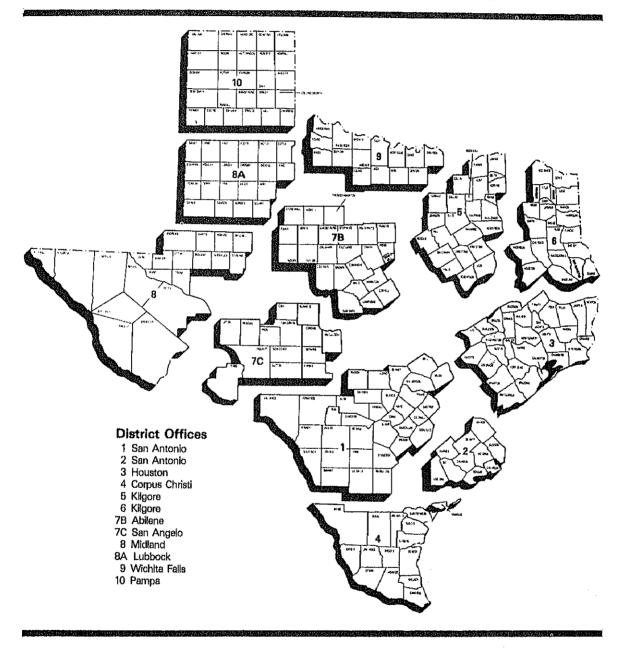
Petroleum Administration for Defense (PAD) Districts



Bureau of Mines Refining Districts



District Map Oil and Gas Division Railroad Commission of Texas.



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Explanatory Notes As .

Note 1: Data Collection Methodology

Background

Beginning in January 1983, the Energy Information Administration (EIA) unified its petroleum supply data collection activities into the Petroleum Supply Reporting System (PSRS). The PSRS represents a family of data collection survey forms, data processing systems and publication systems that have been consolidated to achieve comparability and consistency throughout. The primary focus of the consolidation has been to revise the weekly and monthly survey reporting forms to assure consistency in form layout, preparation instructions, and definitions. As a result, a new set of survey forms were implemented in January 1983. The following are the new form numbers and their corresponding predecessor forms:

New Form Number	Name	Old Form Number
EIA-800	Weekly Refinery Re-	EIA-161
EIA-801	Weekly Bulk Termi- nal Report	EIA-162
EIA-802	Weekly Product Pipe- line Report	EIA-163
EIA-803	Weekly Crude Oll Stocks Report	EIA-164
EIA-804	Weekly Imports Report	EIA-165
EIA-805	Weekly Shipments- from Puerto Rico to the United States Report	
EIA-810	Monthly Refinery Report	E1A-87
EIA-811	Monthly Bulk Termi- nal Report	EIA-88
EIA-812	Monthly Product Pipeline Report	EIA-89
EIA-813	Monthly Crude Oil Report	EIA-90
ERA-60	Monthly Imports Re- port	ERA-60
EIA-815	Monthly Shipments from Puerto Rico to the United States Report	FEA-P133- M-0
EIA-816	Monthly Natural Gas Liquids Report	EIA-64
EIA-817	Monthly Tanker and Barge Movement Report	EIA-170

Forms EIA-800 through 805 comprise the Weekly Petroleum Supply Reporting System (WPSRS). This system is designed to collect basic refinery operations and product stock data for major products on a weekly basis. Data from the WPSRS are published in the Weekly Petroleum Status Report (WPSR) and are also used to calculate the preliminary statistics in the "Summary Statistics" section of the Petroleum Supply Monthly (PSM). A description of the WPSRS survey forms follows in Note 1.1.

Forms EIA-810-813, 815-817 and ERA-60 comprise the Monthly Petroleum Supply Reporting System (MPSRS). These surveys collect detailed refinery operations data, refinery, bulk terminal and pipeline stocks data, crude oil and petroleum product imports data and movements of petroleum products and crude oil between PAD Districts data. These surveys are the primary source of data for the "Summary Statistics" and "Detailed Statistics" sections of the *PSM*. A description of MPSRS survey forms follows in Note 1.2.

Data are also obtained in magnetic tape form from the Bureau of the Census on a monthly basis. These tapes contain aggregated import and export statistics that are used in the preparation of the PSM. A description of the Census data follows in Note 1.3.

Note 1.1: Weekly Petroleum Supply Reporting System (WPSRS)

Background

The EIA first began publishing weekly petroleum supply statistics in April 1979 in response to the iranian oil crisis. Initially, the published data were taken from the American Petroleum Institute (API) Weekly Statistical Bulletin. However, in January 1980 the EIA began to publish weekly statistics from its own surveys, with the exception of imports statistics which the EIA did not begin collecting until June 1980.

The weekly surveys collect data comparable to those collected on a monthly basis. Selected petroleum companies report weekly data to the EIA on crude oil and petroleum product stocks, refinery inputs and production, and crude oil and petroleum product imports. On Forms EIA-800 through EIA-803, companies report data on a custody basis. On the Form EIA-804, the importer of record reports each shipment entering the United States. On Form EIA-805, a company shipping unfinished oils and finished petroleum products into the United States from Puerto Rico reports each shipment. Current weekly data and the most recent monthly data are used to estimate the totals that are published in the Weekly Petroleum Status Report.

Sample Frame

The sample of companies that report weekly is selected from the universe of companies that report on the comparable monthly surveys. Sampled companies report data only for facilities in the 50 States and District of Columbia.

The sample for each survey is taken from the following universe:

EIA-800: Based on the EIA-810 universe, which includes all petroleum refineries in the United States and

its territories, industrial facilities that have crude oil distiliation capacity and produce some refined petroleum products, and plants that produce finished motor gasoline through mechanical blending. The selected sample size is 215.

EIA-801: Based on the EIA-811 universe, which includes all bulk terminal facilities in the United States and its territories that have either a total bulk storage capacity of 50,000 barrels or more, or that receive petroleum products by tanker, barge, or pipeline. The selected sample size is 93.

EIA-802: Based on the EIA-812 universe, which includes all petroleum product pipeline companies in the United States and its territories that transport refined petroleum products, including interstate, intrastate and intracompany pipeline movements. Pipeline companies that transport only natural gas liquids are not included in the EIA-802 frame. Only those pipeline companies that transport products covered in the weekly survey are included. The selected sample size is 65.

EIA-803: Based on the EIA-813 universe, which consists of all companies which carry or store crude oil of 1,000 barrels or more in the 50 States, and the District of Columbia. Included are gathering and trunk pipeline companies (including interstate, intrastate, and intracompany pipelines), crude oil producers, terminal operators, storers of crude oil, and companies transporting Alaskan crude oil by water.

EIA-804: Based on the ERA-60 universe, which includes all importers of record of crude oil and petroleum products into the United States and Puerto Rico. The selected sample size is 65.

EIA-805: Based on the EIA-815 universe, which includes all shippers of unfinished oils and petroleum products into the United States from Puerto Rico, Four companies report.

Sampling Method

The cut-off method is the sampling procedure used for all weekly surveys except the EIA-802, which uses the monthly universe in its entirety. In the cut-off method, companies are ranked from largest to smallest on the basis of the quantities reported during some previous 12-month period. Companies are chosen for the sampling, beginning with the largest and adding companies until the total sample covers 90 percent of the total for the previous time period for each product published in the Weekly Petroleum Status Report.

Collection Methods

Data are collected by mail, mailgram, telephone, Telex, and Telefax on a weekly basis. The report period closes each Friday at 7 a.m. All canvassed firms and terminal operations companies must file by 5 p.m. on the following Monday.

Estimation and Imputation

After company reports have been checked and entered into the weekly data base, weekly totals for given products are estimated by using the following formula.

The total reported by all companies for the most recent month (M_t) is divided by the amount reported by the sample of companies for the most recent month (M_s) . The result is multiplied by the amount reported by the sample of companies for the current week (W_s) . The answer, W_t , is an estimate of the amount that would have been reported by all companies for the current week if all companies reported each week.

$$W_t = \frac{M_t}{M_s} (W_s)$$

This procedure is used to estimate total weekly inputs to refineries and production.

To estimate stocks of finished products, the preceding procedure is followed separately for refineries, bulk terminals, and pipelines. Total estimates are formed by summing over establishment types.

Weekly imports data are highly variable on a companyby-company basis or a week-by-week basis. Therefore, an exponentially smoothed ratio has been developed. The estimate of weekly imports is the sum of the smoothed ratio multiplied by the weekly values and estimates for shipments from Puerto Rico. Imports of other oils includes an adjustment from Census data for unlicensed products because of coverage differences between the monthly imports data and Census data.

Explicit imputation is done for companies which do not respond in a given week. The imputed values are exponentially smoothed means of recent reports from the specific company.

Response Rates

The response rate for the published estimates is usually between 95 and 98 percent.

Note 1.2: Monthly Petroleum Supply Reporting System (MPSRS)

Background

The MPSRS was implemented in January 1983 as the result of an extensive effort to integrate the collection and processing of petroleum supply data that have been collected on other survey forms for many years. The collection of monthly petroleum supply statistics began as early as 1918 when the Bureau of Mines (BOM) began collecting data on refinery operations and crude oil stocks and movements. The collection systems

were further expanded to include natural gas plant liquids production and storage in 1925, imports of crude oil and petroleum products and storage and movements of petroleum products in 1959, and tanker and barge movements of crude oil and petroleum products in 1964. Since their inception, each survey has undergone numerous changes, but the MPSRS is the first effort to make them all consistent and comparable.

Respondent Frame

EIA-810: All petroleum refineries and plants that produce finished motor gasoline through the mechanical blending of liquids which are operated or controlled in the 50 States, the District of Columbia, Puerto Rico, the Virgin Islands, the Hawaiian Foreign Trade Zone, and Guam. Approximately 313 respondents report on the EIA-810.

EIA-811: All bulk terminal facilities in the 50 States and the District of Columbia, Puerto Rico, and the Virgin Islands that (a) have a total bulk storage capacity of 50,000 barrels or more and/or (b) receive petroleum products by tanker, barge, or pipeline, regardless of ownership of the material. Approximately 328 respondents report on the EIA-811.

EIA-812: All products pipeline companies that carry petroleum products (including interstate, intrastate and intracompany pipelines) in the 50 States and the District of Columbia. Approximately 94 respondents report on the EIA-812.

EIA-813: All companies which carry or store crude oil of 1,000 barrels or more in the 50 States, and the District of Columbia. Included are gathering and trunk pipeline companies (including interstate, intrastate, and intracompany pipelines), crude oil producers, terminal operators, storers of crude oil, and companies transporting Alaskan crude oil by water.

EIA-815: All Ilcensed Importers and importers of record shipping petroleum products from Puerto Rico into the 50 States and the District of Columbia.

Import data from the ERA-60 and EIA-815 are integrated into the import statistics reported in the PSM.

EIA-816: All operators of facilities designed to extract ilquid hydrocarbons from natural gas stream (natural gas processing plants) or to separate a hydrocarbon stream into its component products, i.e., propane, butane, natural gasoline, etc. (fractionators). Approximately 990 respondents report on the EIA-816.

EIA-817: All known companies and plants that have custody of crude oil and petroleum products transported by tanker and barge between PAD Districts or between PAD Districts and the Panama Canal. There are about 50 respondents.

ERA-60: All licensed importers and importers of record importing crude oil and petroleum products into the

United States and Puerto Rico. The respondent universe consisted of approximately 1,100 firms as of July 31, 1982. However, only a selected 250 importers must report each month regardless of import activity. All others must report only for a month in which they actually had imports. The respondent universe for this survey is updated whenever an import license is granted by the Office of Oil Imports of the ERA.

EIA utilizes a number of sources and methods to maintain the survey respondent lists. On a regular basis, survey managers review industry publications such as the Oil and Gas Journal and LP Gas Almanac for information on facilities or companies going into operation or closing down. These are augmented by articles in newspapers, letters from respondents indicating changes in status and information received from survey systems operated by other offices.

Periodically an extensive survey study is conducted to completely refresh the frames. This involves consolidating information from every known source including State agencies, federal agencies (e.g., EPA, Corps of Engineers, Census Bureau, etc.), and private industry directories. The effort also includes the evaluation of the impact of potential frame changes on the historical time series of data published from these respondents. The results of this frame study are usually implemented in January to provide a full year under the same frame.

Collection Methods

The data for all of the MPSRS surveys are collected monthly. Completed forms are required to be postmarked by the 20th day following the end of the report month, with the exception of the EIA-815 and ERA-60 which are due 15 work days following the end of the report month. Telephone follow-up calls are made to non-respondents prior to the publication deadline, for their data. An automated mailing list is maintained and is used to monitor receipt of the forms.

Imputing Missing Data

Imputation is performed only for nonresponding companies that submitted reports the previous month. For such companies, previous monthly values are used for current values. The previous month's ending stocks value is used for both the current month's beginning stocks and the current month's ending stocks. In the event that the previous month's data were estimated, the respondent is contacted and requested to submit estimates, if necessary, to be followed by submission of actual data. Data for nonrespondents on the EIA-815 and 817, and ERA-60 are not imputed.

Response Rates

As of the filing deadline, the response rates of the EIA-810 through EIA-813 respondents is over 90 per-

cent. The response rate for the EIA-816 is over 85 percent and for the EIA-817 it is 98 percent. All companies that have not responded are contacted by telephone. Although data are taken by telephone to expedite processing, a certified submission is still required. Names of companies that fail to file for 2 consecutive months are forwarded for further noncompliance action.

In July 1982, the ERA-60 survey had a response rate of 98 percent by the filing deadline. The universe was 1,100 firms at that time. (Because this is a dynamic survey, the universe is constantly changing.) Standard follow-up of nonrespondents is made to insure that all reports are received, since data are not imputed for nonrespondents. In addition, response is crosschecked with response on the Petroleum Licensing Decrementation System (PLDS), a listing of each month's importers. The response rate is generally 98 to 99 percent by the time the data are first published.

Note 1.3: Census Import (IM-145) and Export (EM-522 and EM-594) Data

Background

Each month the EIA purchases magnetic tapes of aggregated import and export statistics from the Bureau of the Census. These data provide the only source of export statistics and are used to augment the import data collected by the EIA. Export statistics and import data from the Census tapes on liquefied petroleum gases, bonded ships bunkers and military offshore use are published in the *PSM*.

import Statistics (IM-145)

Coverage

The Import statistics reflect both government and nongovernment Imports of merchandise from foreign countries into the U.S. Customs territory (the 50 States, the District of Columbia, and Puerto Rico), without regard to whether or not a commercial transaction is involved. In general, the statistics record the physical movement of merchandise into the United States from foreign countries, with the exception of the following types of transactions that are excluded from the statistics:

- Merchandise in-transit through the United States, when documented with Customs as an in-transit movement.
- 2. Shipments from anywhere to U.S. possessions and shipments from U.S. possessions to the United States. (U.S. possessions include Puerto Rico, the Virgin Islands, Guam, and American Samoa.)
- 3. U.S. merchandise that was held in foreign countries by the U.S. Armed Forces and is returned to the United States for the use of the Armed Forces.

Source of Import Information

The official U.S. import statistics are compiled by the Bureau of the Census from copies of the import entry and warehouse withdrawal forms that importers are required by law to file with Customs officials (Customs Forms 7501, 7505, and 7506).

Imported petroleum is reported as *Imports for Consumption*. Imports for consumption are a combination of entries for immediate consumption and withdrawals from warehouses for consumption. With certain exceptions as indicated above, these data generally reflect the total of commodities entered into U.S. consumption channels.

Country and Area of Origin

The country reported in the statistics as the country of origin is defined as the country where the merchandise was grown, mined, or manufactured. In instances where the country of origin cannot be determined, the transactions are credited to the country of shipment.

Export Statistics (EM-522 and EM-594)

Coverage

The export statistics reflect both government and nongovernment exports of domestic and foreign merchandise from the U.S. Customs territory (the 50 States, the District of Columbia, and Puerto Rico) to foreign countries, without regard to whether or not the exportation involves a commercial transaction. In general, the statistics record the physical movement of merchandise out of the United States to foreign countries, with the exception of the following types of transactions:

- 1. All shipments from U.S. possessions, regardless of whether the shipments are sent to the United States, to other U.S. possessions, or to foreign countries.
- Merchandise shipped in transit through the United States from one foreign country to another, when documented as such with U.S. Customs.
- 3. Bunker fuels and other supplies and equipment for use on departing vessels, planes, or other carriers engaged in foreign trade.

Source of Export Information

The official U.S. export statistics are compiled by the Bureau of the Census primarily from copies of Shipper's Export Declarations. Exporters are required to file Shipper's Export Declarations with Custom's officials. The only exceptions are those exporters who have been authorized to submit data directly to the Bureau of Census on magnetic tape, punched cards, or monthly Shipper's Summary Export Declarations.

Country and Area of Destination

The country of destination is defined as the country of ultimate destination or the country where the goods are to be consumed, further processed, or manufactured, as known to the shipper at the time of exportation. If the shipper does not know the country of ultimate destination, the shipment is credited to the last country to which the shipper knows that the merchandise will be shipped in the same form as it was when exported.

Note 2: Supply

The components of petroleum supply are field production, refinery production, imports, and stock withdrawal or addition:

Field Production is the sum of crude oil production (including lease condensate), natural gas processing plant production, and new supply (field production) of other liquids used by refineries.

Crude oil production is estimated based on data received from State conservation and revenue agencies. For further explanation, see Explanatory Note 3.

Field production of natural gas plant liquids (NGPL), including finished petroleum products, is reported monthly on survey Form ElA-816, *Monthly Natural Gas Liquids Report*. Negative production will occur when the amount of a product produced during the month is less than the amount of that same product that is reprocessed (input) or reclassified to become another product during the same month. For survey description and other detail, see Explanatory Note 1.2.

Refinery Production of LRGs, ethane, and finished petroleum products is reported monthly on survey Form EIA-810, Monthly Refinery Report. Published production of these products equals refinery production minus refinery input. Refinery production of unfinished oils and of motor and aviation gasoline blending components appears on a net basis under refinery input. Negative production will occur when the amount of a product produced during the month is less than the amount of that same product that is reprocessed (input) or reclassified to become another product during the same month. It should also be noted that refineries do not export production of crude oil, natural gasoline, isopentane, unfractionated stream, plant condensate, or other hydrocarbons.

Imports of crude oil and petroleum products are reported monthly on Form ERA-60, Report of Oil Imports into the United States and Puerto Rico, and Form EIA-815, Shipments of Refined Products (Including Unfinished Oils) from Puerto Rico to the United States. In addition, the Census Bureau Tabulation IM-145 summarizes import data from Customs import declarations reported on Customs Forms 7501 and 7505. The most prominent difference between the EIA and Census systems appears in imports of Ilquefied petroleum gases

(LPG), where the Census data show a much higher level of Imports than EIA data. This occurs because the ERA-60 respondent frame was built by monitoring importers of licensed products and LPGs are not licensed products. Therefore, respondents that import only LPGs have not been identified, and do not report these imports to the Department of Energy. Since these importers are required to file form 7501 with the U.S. Customs Service, EIA obtains data on imports of LPGs from Census Tabulation IM-145. Additional data taken from the IM-145 are relatively small quantities of naphthaand kerosene-type jet fuels, distillate fuel oils, and residual fuel oils withdrawn from bonded storage for use in international trade and for military offshore use. Even though these duty-free fuels are stored on United States shores, they did not enter the United States for domestic consumption and therefore are not included In the ERA-60 reporting system.

Stock Withdrawal (+) or Addition (-) is calculated by subtracting stocks at the end of the month from stocks at the beginning of the same month. (Note: The beginning stocks of one month are equal to the ending stocks of the previous month.) A positive result (+) would represent a withdrawal from stocks and an increase in petroleum supplies distributed for domestic consumption. A negative result (-) would represent a buildup of stocks and a reduction in the amount of petroleum supplies distributed for domestic consumption. For a description of survey forms used to make stock withdrawal or addition calculations see Explanatory Note 5.

Unaccounted-for Crude Oil is a balancing item that represents the difference between crude oil supply and disposition.

Crude oil supply is the sum of field production, imports and stock withdrawals or additions. Crude oil disposition is the sum of exports, refinery input, losses and product supplied. Unaccounted-for crude oil is calculated by subtracting crude oil supplies from crude oil disposition. A positive result indicates that refiners and exporters reported use of more crude oil than was reported to have been available to them. (This occurs, for example, when imports are undercounted due to late reporting or other problems.) A negative result would indicate that more crude oil was reported to have been supplied to refiners and exporters than they reported used.

Note 3: Domestic Crude Oil Production

Data for the Crude Oil Production System (COPS) are reported to the Department of Energy by each of the State conservation agencies, which collect crude oil production values for tax purposes. The U.S. Geological Survey reports the volume of crude oil that is produced offshore in Federally-owned waters. With the exception of ten State conservation agencies, all of these reports are received monthly. After each calendar year, these monthly numbers are updated using the annual reports

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from the State conservation agencies and the U.S. Geological Survey. The ten States that do not report monthiy values are Indiana, Kentucky, Missouri, Arkansas, Utah, New York, Ohio, Pennsylvania, West Virginia, and Wyoming. Monthly values are estimated for these States using the individual linear trends of their historical annual crude oil production values.

There is a time lag of approximately 4 months between the end of the reporting month and the time when the monthly COPS information becomes available. Table 11 of this publication provides information on crude oil production for the most recent month for which COPS values are available. In order to present more timely crude oil production values, the EIA's Dallas Field Office prepares a series of State level estimates which are based on historical production patterns and are summed to obtain the monthly crude oil production values shown in the summary statistics of this publication.

The individual State level estimates are either exponential curve fitted projections based on recent data or are constant level projections based on the average production rate during a recent time period. In some cases, adjustments are made to these estimates based on additional information on expected changes in production rates supplied by a State agency, a trade association, or an individual field operator.

Note 4: Disposition

The components of petroleum disposition are crude oil losses, refinery inputs, exports, and products supplied for domestic consumption.

Crude Oil Losses is the sum of crude oil losses at refineries. Crude oil losses at refineries are reported on Form EIA-810, *Refinery Report*.

Refinery inputs of crude oil, natural gas plant liquids, and other liquids are reported monthly on survey Form EIA-810, Monthly Refinery Report. Published inputs of unfinished oils and of motor and aviation gasoline blending components equal refinery input minus refinery output. Refinery inputs of finished petroleum products are reported on a net basis under refinery production.

Exports of crude oil and petroleum products are compiled from Census Bureau tabulations EM-522 and EM-594. Exports include crude oil shipments to Puerto Rico, the Virgin Islands, and the Hawalian Foreign Trade Zone, which are obtained from refinery receipts reported on Form EIA-810, by refineries located in these places.

Product supplied for each product is calculated by summing field production plus refinery production, plus imports, plus stock withdrawal or minus stock addition, minus crude oil losses (plus net receipts when calculated on a PAD District basis), minus re-

finery input, minus exports. This formula ensures that total disposition equals total supply.

Products supplied indicates those quantities of petroieum products supplied for domestic consumption. Occasionally, the result for a product is negative because total disposition of that product exceeds total supply. Negative product supplied may occur for a number of reasons: (1) product reclassification has not been reported, (2) data were misreported or reported late, (3) in the case of calculations on a PAD District basis, the figure for net receipts was inaccurate because the coverage of interdistrict movements was incomplete.

Product supplied for crude oil is the sum of crude oil burned on leases and by pipelines as fuel oil. These data are reported on EIA-813, Monthly Crude Oil Report. Prior to January 1983, crude oil burned on leases and by pipelines as fuel oil were reported as either distillate or residual fuel oil and included in product supplied for these products.

Note 5: Stocks

Primary stocks of crude oil are the sum of ending stocks reported monthly on Form EIA-810, Monthly Refinery Report, and on Form EIA-813, Monthly Crude Oil Report. Crude oil held in the Strategic Petroleum Reserve is included unless otherwise noted. Alaskan crude oil in transit is also included. Stocks of crude oil are also reported weekly on Form EIA-800, Weekly Refinery Report, and on Form EIA-803, Weekly Crude Oil Stocks Report. Primary stocks of petroleum products are summed from data reported on Form EIA-816, Monthly Natural Gas Liquids Report, Form EIA-811, Monthly Bulk Terminal Report, and on Form EIA-812, Monthly Product Pipeline Report. Primary stocks of petroleum products do not include either secondary stocks held by dealers and jobbers or stocks held by consumers. Petroleum product stocks are also reported weekly on Form EIA-800, Weekly Refinery Report, Form EIA-801, Weekly Bulk Terminal Report, and Form EIA-802, Weekly Crude Oil Stocks Report. For survey descriptions and other details, see Explanatory Notes 1.1 - 1.3.

Note 6: Average Stock Levels

The graphs displaying monthly stock levels of crude oil, motor gasoline, distillate fuel oil, residual fuel oil, liquefied petroleum gases, and other products provide the user with recent data as well as a summary of data from January through December or from July through June for the most recent 3-year period. This summary takes the form of an average range that includes seasonal variation determined from a longer time period. The

average range represents the historical pattern; it is not a forecast.

These curves are updated semiannually (on Arpil 1 and October 1), by basing the average ranges on a more recent time period. Each 3-year data series is adjusted by dropping the first 6 months and including the most recent 6 months.

For each data series, the monthly seasonal factors are estimated by means of a seasonal adjustment technique developed at the Bureau of the Census (Census X-11). The seasonal factors are assumed to be stable (i.e., unchanging from year to year) and additive. The series is deseasonalized by subtracting the seasonal factor for the appropriate month from the reported stock levels. The intent of deseasonalization is to remove only seasonal variation from the data. Thus, a deseasonalized series would contain the same trends and irregularities as the original data. For crude oil stocks. the derived seasonal factors are very small relative to crude oil stock levels. Therefore, the seasonal factors for distillate fuel oil, residual fuel oil, liquefied petroleum gases and other products are derived using monthly data from 1974-1980. For motor gasoline, the seasonal factors are based on monthly data from 1975, 1976, 1978, 1979 and 1980. In 1977, there was virtually no seasonal behavior in motor gasoline stocks. Monthly stock levels stayed at the same high level for the entire year. In addition, the seasonal patterns in 1973, 1974 and 1977 were not representative of the recent past, and these years were not used in the determination of seasonal patterns for motor gasoline stocks. Because of these differences in the year-to-year seasonal fluctuation of motor gasoline, the evidence for the illustrated seasonal patterns for crude oil, distillate fuel oil, residual fuel oil, liquefied petroleum gases and other products is stronger than is the evidence for the illustrated seasonal patterns for motor gasoline.

In some cases, these seasonal patterns do not show a smooth transition from month to month. For example, the June factor for residual fuel oil is slightly less than the May and July values, making a bump in the curve. As there is little difference in the magnitude of these seasonal factors, it is possible that this variation is due to the small number of observations (7 years) and the data variability.

After seasonal factors are derived, the most recent 3-year period (from January through December or from July through June) is deseasonalized. The average of the deseasonalized 36-month series determines the midpoint of the deseasonalized average band. The standard error of the deseasonalized 36 months is calculated adjusting for extreme data points. The width of the average range is twice this standard error.

The upper curve of the average range is defined as the average plus the seasonal factors plus the standard error. The lower curve is defined as the average plus the seasonal factors minus the standard error.

Note 7: Movements

Movements of crude oil between PAD Districts are reported on Form EIA-817, Monthly Tanker and Barge Movement Report, and on Form EIA-813, Monthly Crude Oil Report. Petroleum product movements are reported on Forms EIA-817 and EIA-812, Monthly Product Pipeline Report. Net receipts is the difference between total movements into and total movements out of each PAD District by pipeline, tanker, and barge. For survey descriptions and other detail, see Explanatory Note 1.2.

Note 8: Preliminary Monthly Statistics

Weekly data (Forms EIA-800, 801, 802, 803, and 804) are used to estimate the most recent monthly values for the Summary Statistics section. Since some of the weekly reporting periods overlap two adjacent months, it is necessary to use weighting factors in the calculation of the monthly values.

To estimate crude oil and petroleum product imports, crude oil input to refineries and production of petroleum products for a specific month, the weekly estimates are weighted by the number of days of that month included in each week, then summed.

End-of-month stock levels of crude oil and the major products (motor gasoline, distillate fuel oil, and residual fuel oil) are calculated in a similar manner, but use only the two weekly reporting periods that cover the end-of-week stocks before and after the end of the month. The end-of-month stock level is calculated by first calculating the stock change between the two weeks. The daily stock change between the two end-of-week stock levels is then calculated. This number is multiplied by the weighting factor of the earlier of the two weeks (the week that covers the last day of the month of interest). This change is added to the earlier of the two end-of-week stock levels to estimate the end-of-month stock level.

Preliminary monthly estimates of domestic crude oil production are calculated as described in Explanatory Note 3.

Note 9: Notes on Tables

Note 9.1 Crude Oil and Petroleum Products Overview statistics on the referenced line appear in Table 4 of the Detailed Statistics, except where noted.

Crude Oil and Petroleum Products Stock Withdrawal (+) or Addition (-), Petroleum Products Supplied, Total Imports, Crude Oil Imports, Total Exports, and Crude Oil Exports appear as labeled in Table 4.
 Total Production and Crude Oil Production appear under Field Production in Table 4.

- Natural Gas Plant Production is the sum of Natural Gas Liquids and Finished Petroleum Products Field Production in Table 4.
- Petroleum Products Imports is the sum of Natural Gas Liquids and LRGs, Other Liquids, and Finished Petroleum Products Imports in Table 4.
- Total Crude Oil and Petroleum Products Ending Stocks appear in thousands of barrels in Table 2.

Note 9.2 Crude Oil Supply and Disposition statistics on the referenced line appear in Table 1 of the Detailed Statistics, except where noted.

- Total Domestic Field Production, Alaskan Field Production, SPR Imports, Other Imports (synonymous with Imports Gross Excl. SPR), SPR and Other Primary Stocks Withdrawal (+) or Addition (-), Unaccounted For Crude Oil, Refinery Inputs, and Exports appear as labeled in Table 1.
- Crude losses and Product Supplied appear as labeled in Table 4.
- SPR Ending Stocks and Other Primary Ending Stocks (synonymous with stocks excluding SPR) appear in thousands of barrels in Table 1.
- Total Crude Oil Ending Stocks appear in thousands of barrels in Table 2.
- Total Imports appear in Table 4.

Note 9.3 Finished Motor Gasoline Supply and Disposition statistics on the referenced line appear in Table 4 of the Detailed Statistics, except where noted.

- Total Production is the sum of Field Production and Refinery Production in Table 4.
- Imports, Stock Withdrawal (+) or Addition (-), Exports, and Product Supplied appear as labeled in Table 4.
- Unleaded Percent of Total Product Supplied represents the ratio of finished unleaded motor gasoline product supplied to total finished motor gasoline product supplied, multiplied by 100 and rounded to the nearest tenth.
- Ending Stocks appear in thousands of barrels in Table 2.

Note 9.4 Distillate and Residual Fuel Oil Supply and Disposition statistics on the referenced lines appear in Table 4 of the Detailed Statistics, except where noted.

- Total Production is the sum of Field Production and Refinery Production in Table 4.
- Imports, Stock Withdrawal (+) or Addition (-), Exports, and Product Supplied appear as labeled in Table 4.

• Ending Stocks appear in thousands of barrels In Table 2.

Note 9.5 Liquefied Petroleum Gases Supply and Disposition statistics represent the aggregation of statistics on ethane, propane, butane, butane-propane mixtures, ethane-propane mixtures, and isobutane. The statistics on the referenced line appear in Table 4 of the Detailed Statistics, except where noted.

- Total Production is the sum of Field Production and Refinery Production in Table 4.
- Imports, Stocks Withdrawal (+) or Addition (-), Refinery Inputs, Exports, and Product Supplied appear as labeled in Table 4.
- Ending stocks appear in thousands of barrels in Table 2.

Note 9.6 Other Petroleum Products Supply and Disposition statistics represent the aggregation of statistics on natural gasoline, isopentane, unfractionated stream, plant condensate, other ilquids, and all finished petroleum products except finished motor gasoline, distillate fuel oil, and residual fuel oil. The statistics on the referenced line are aggregated from Table 4 of the Detailed Statistics, except where noted.

- Total Production is the aggregated sum of Field Production and Refinery Production in Table 4.
- imports, Stock Withdrawal (+) or Addition (-), Refinery Inputs, Exports, and Product Supplied are aggregated from Table 4.
- Ending stocks are aggregated from ending stocks in thousands of barrels in Table 2.

Note 9.7 Table 1. U.S. Petroleum Balance

- Lines (1) through (3): Crude oil (including lease condensate) production for Alaska, Lower 48 States, and Total U.S. are calculated by calling the conservation agency in Alaska for Alaskan crude oil production in the United States (see Explanatory Note 3), and taking the difference to equal production in the Lower 48 States.
- Line (5): SPR Imports are reported on Survey Form ERA~60.
- Line (12): Total Other Sources equals crude oil stock withdrawal (+) or addition (-) plus unaccounted for crude oil minus crude losses in Table 2.
- Line (14): Natural gas plant liquids (NGPL) *Production* equals field production of natural gas liquids (NGL) plus field production of finished petroleum products in Table 2.
- Line (15): NGPL Imports equals the sum of the im-

ports of natural gasoline and isopentane, unfractionated stream, and plant condensate imports in Table 2.

- Line (16): NGPL Stock Withdrawal (+) or Addition (-) is equal to the sum of stock withdrawal (+) or addition (-) of natural gasoline and isopentane, unfractionated stream, and plant condensate in Table 2.
- Line (17) equals the sum of lines (14), (15), and (16).
- Line (18): Unfinished oils and gasoline blending components Stock Withdrawal (+) or Addition (-) equals stock withdrawal (+) or addition (-) for other hydrocarbons and alcohol, for unfinished oils, motor gasoline blending components, and aviation gasoline blending components.
- Line (20): Other Hydrocarbons and Alcohol New Supply equals the field production of same in Table 2.
- Line (21): Refinery Processing Gain is a balancing item equal to total refinery production minus total refinery input in Table 2.
- Line (23): Total Other Liquids equals the sum of lines (18) through (22).
- Line (24): Total Production of Products equals crude oil input to refinerles plus field production of NGPL and finished petroleum products; plus imports of natural gasoline and isopentane, unfractionated stream, and plant condensate; plus stock withdrawal (+) or addition (-) of natural gasoline and isopentane, unfractionated stream, and plant condensate; plus stock withdrawal (+) or addition (-) of other hydrocarbons and alcohol, unfinished oils, aviation gasoline blending components, and motor gasoline blending components; plus imports of unfinished olls, aviation gasoline blending components, and motor gasoline blending components; plus fleld production of other hydrocarbons and alcohol; plus total refinery production; minus total refinery input; plus crude oil product supplied in Table 2.
- Line (25): Gross Imports of Refined Products equals imports of LPG plus imports of finished petroleum products in Table 2.
- Line (26): Exports of Refined Products equals exports of LPG plus exports of finished petroleum products in Table 2.
- Line (27): Net Imports of Refined Products equals the difference between lines (25) and (26).

- Line (28): Total New Supply of Products equals crude oil input to refineries plus field production of NGPL and finished petroleum products; plus imports of natural gasoline and isopentane, unfractionated stream, and plant condensate; plus stock withdrawal (+) or addition (-) of natural gasoline and isopentane, unfractionated stream, and plant condensate; plus stock withdrawal (+) or addition (-) of other hydrocarbons and alcohol, unfinished oils, aviation gasoline blending components, and motor gasoline blending components; plus imports of unfinished oils, aviation gasoline blending components, and motor gasoline blending components; plus field production of other hydrocarbons and alcohol; plus total refinery production; minus total refinery input; minus crude oil product supplied plus imports of LPG and finished petroleum products; minus exports of LPG and finished petroleum products in Table 2.
- Line (29): Refined Products Stocks Withdrawal (+) or Addition (-) equals the sum of stock withdrawal (+) or addition (-) for LPG and finished petroleum products in Table 2.
- Line (30): Total Petroleum Products Supplied for Domestic Use equals total products supplied in Table 2.
- Lines (31) through (35) equal the respective products supplied in Table 2.
- Line (36): Other Products Supplied equals the sum of natural gasoline and isopentane, unfractionated stream, plant condensate, aviation gasoline, naphtha < 400 Deg. F for petrochemical feedstock use, other oils > 400 Deg. F. for petrochemical feedstock use, special naphthas, lubricants, waxes, coke, asphalt, road oil, still gas, unfinished oils, motor gasoline blending components, aviation gasoline blending components and miscellaneous products supplied in Table 2.
- Line (37): Total Product Supplied is equal to total products supplied in Table 2.
- The sum of lines (38) and (39), stocks of *Crude Oil* and Lease Condensate (Excluding SPR) and stocks held by the Strategic Petroleum Reserve, equals ending stocks of crude oil in Table 2. SPR stocks are reported on Form EIA-813.
- Line (43): stocks of *Refined Products*, equals the sum of LPG and finished petroleum product stocks in Table 2.



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